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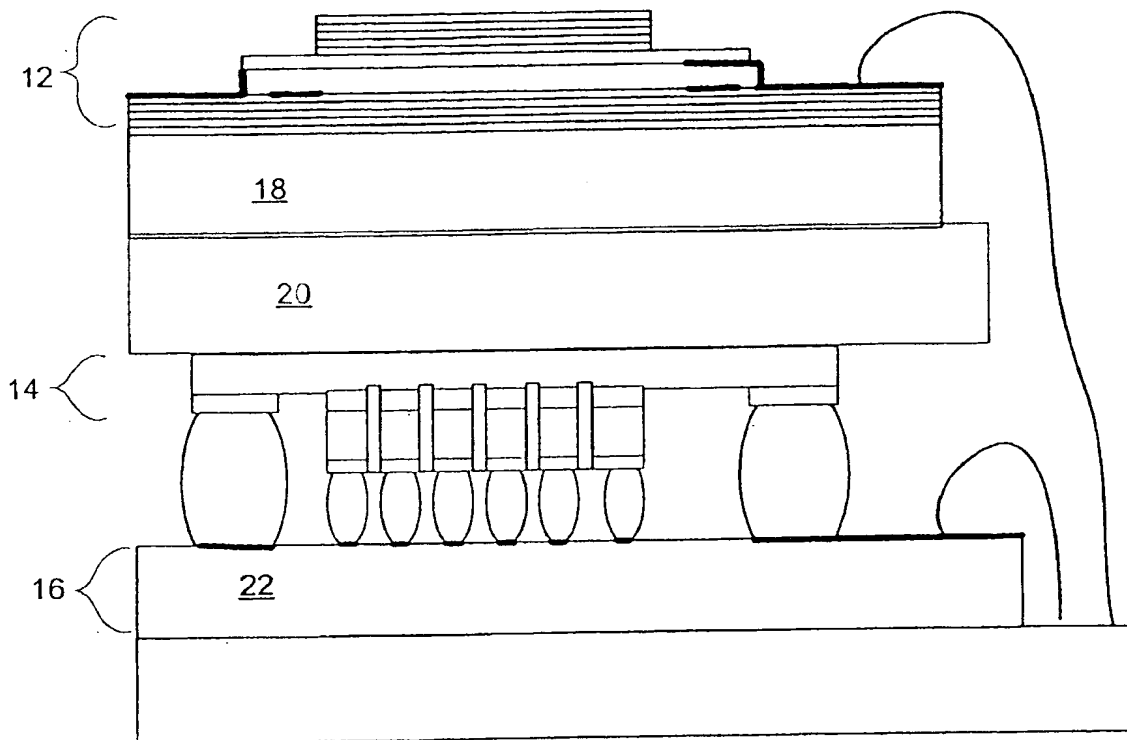


FIG. 2

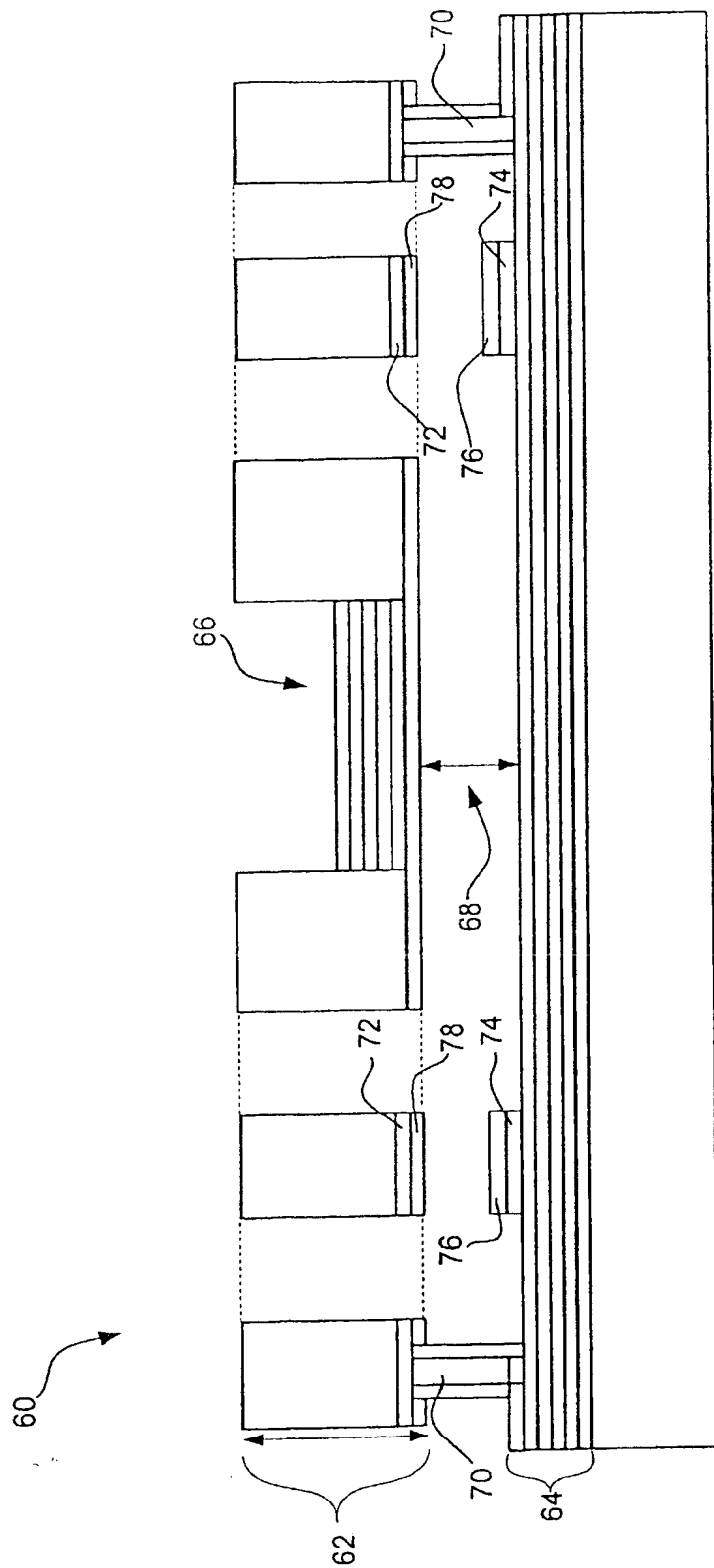


FIG. 3

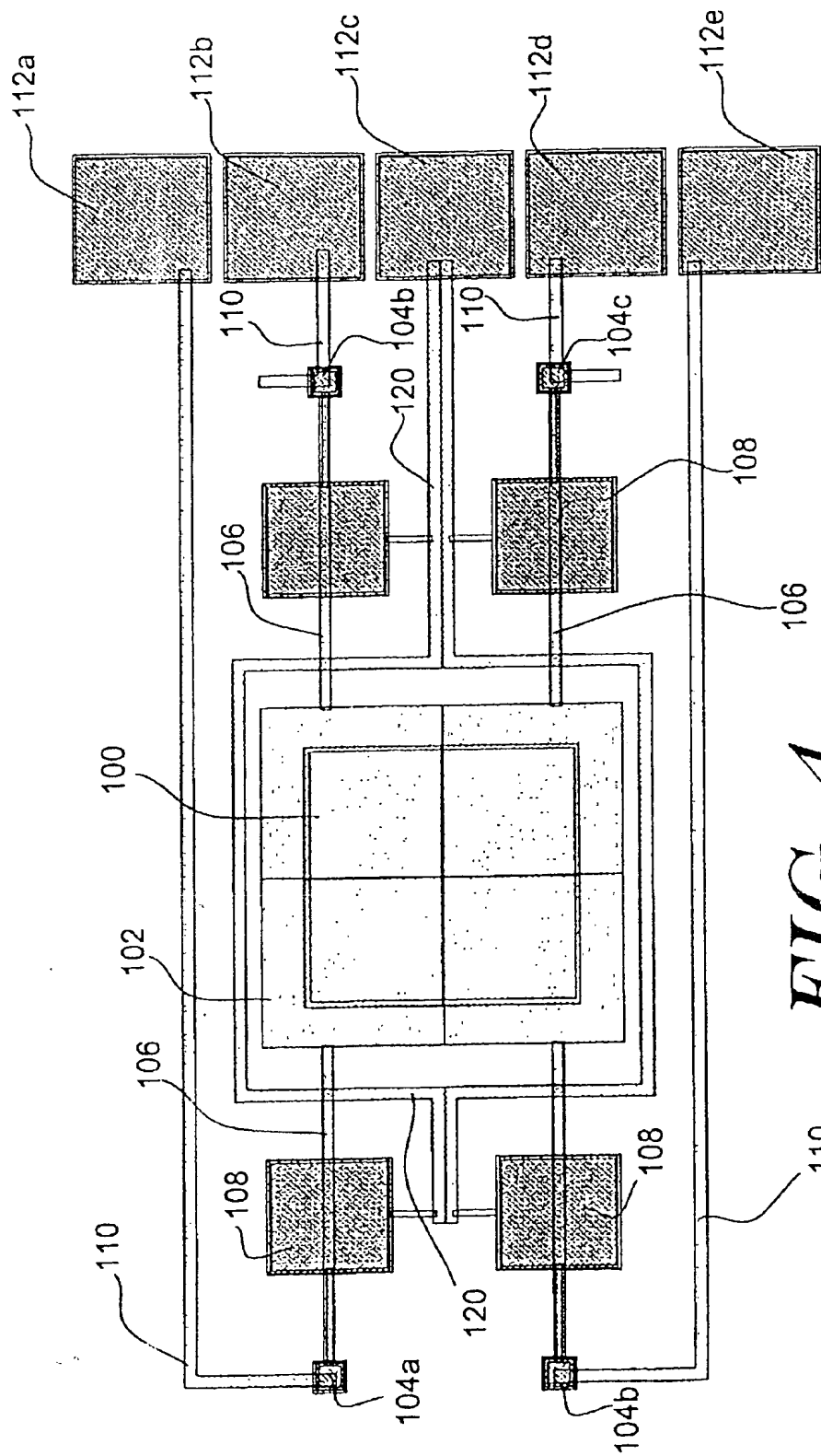


FIG. 4

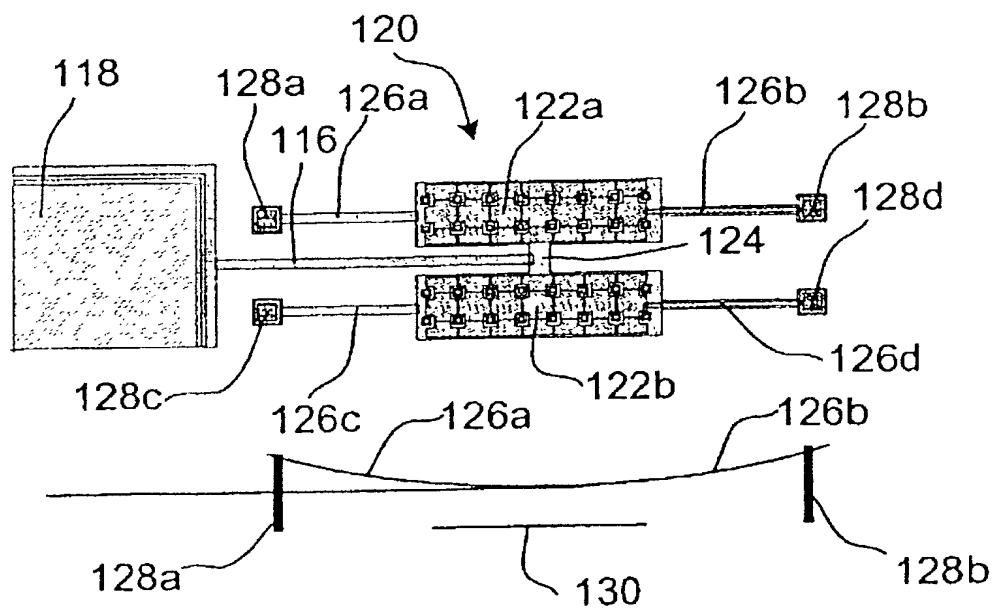


FIG. 5

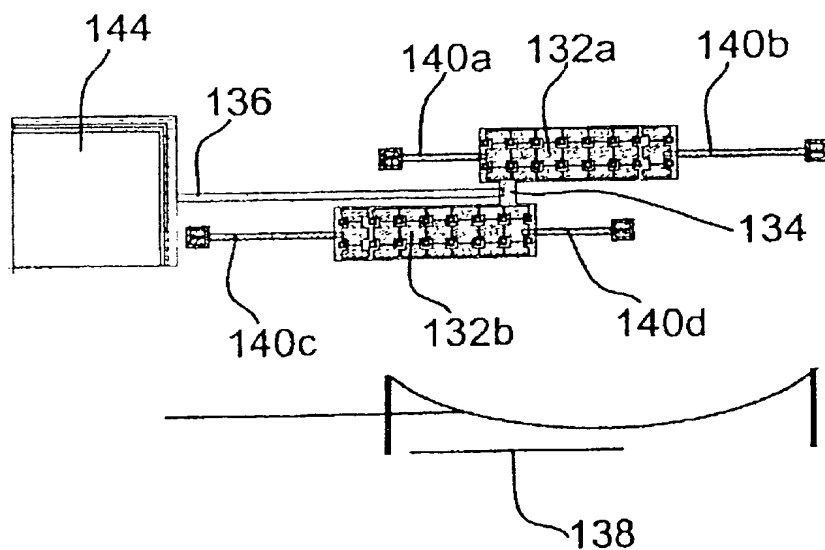


FIG. 6

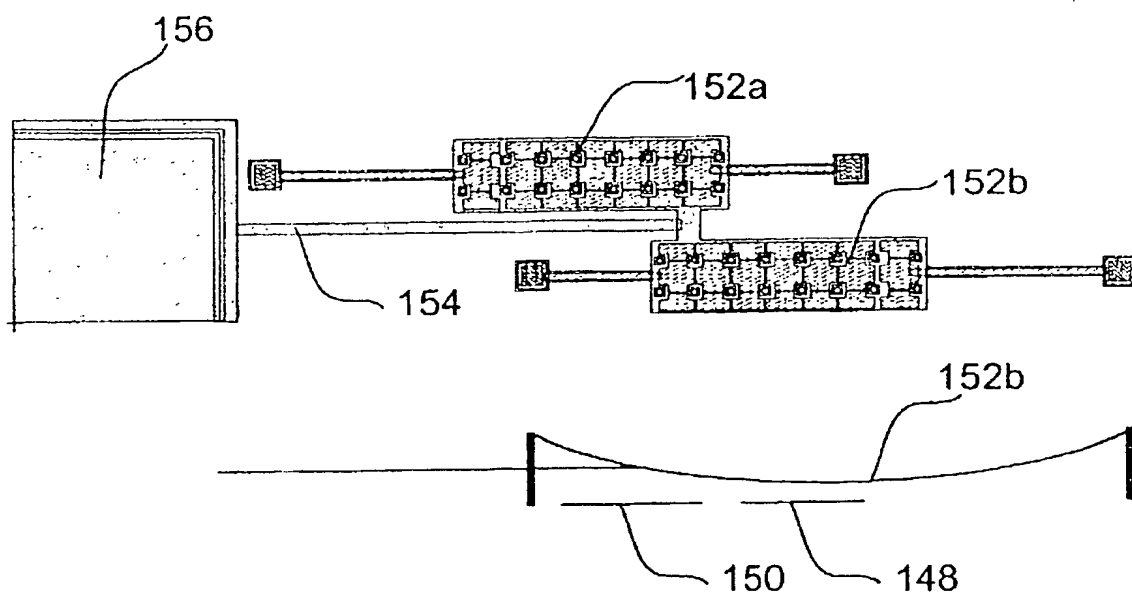


FIG. 7

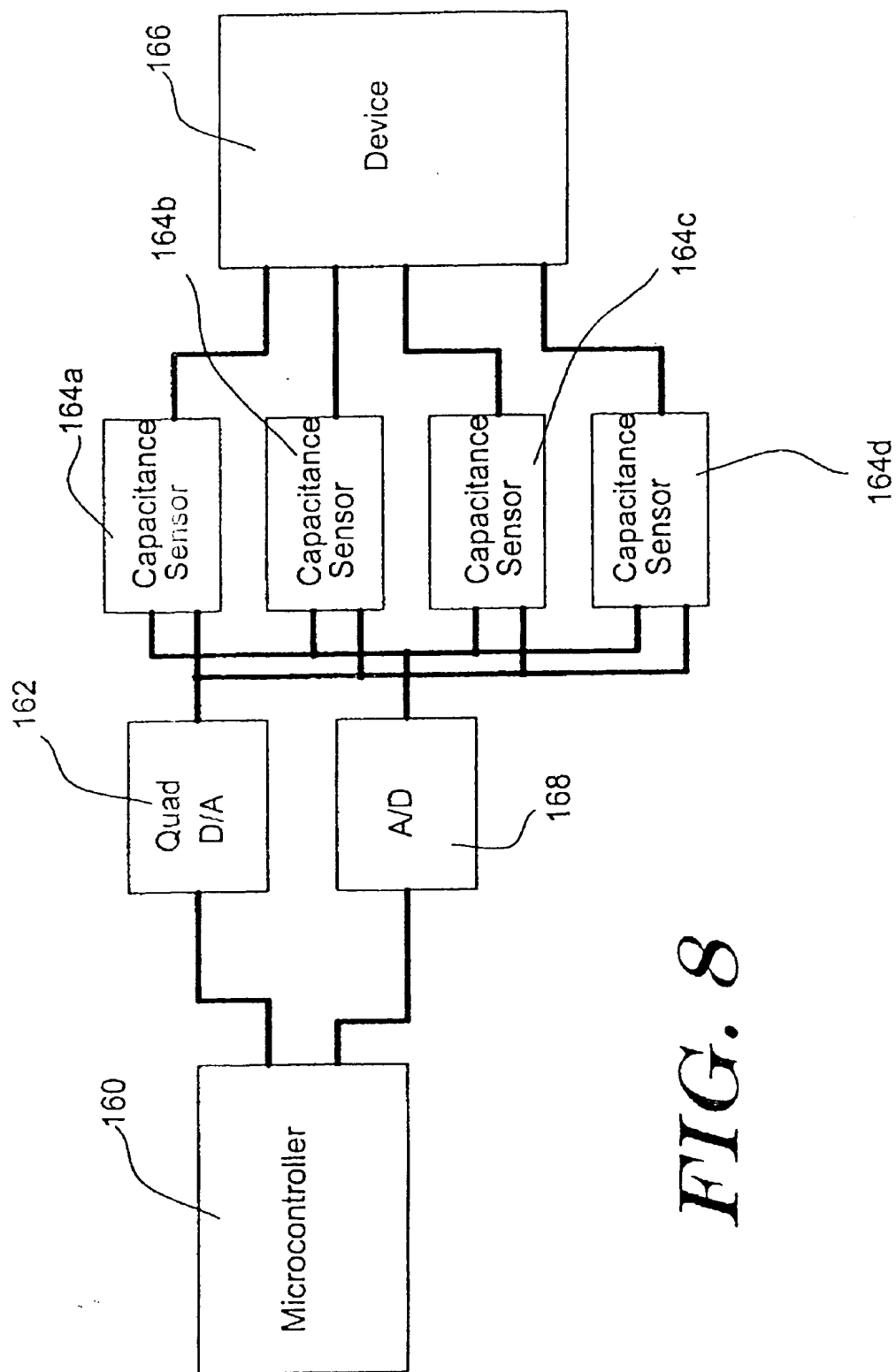


FIG. 8

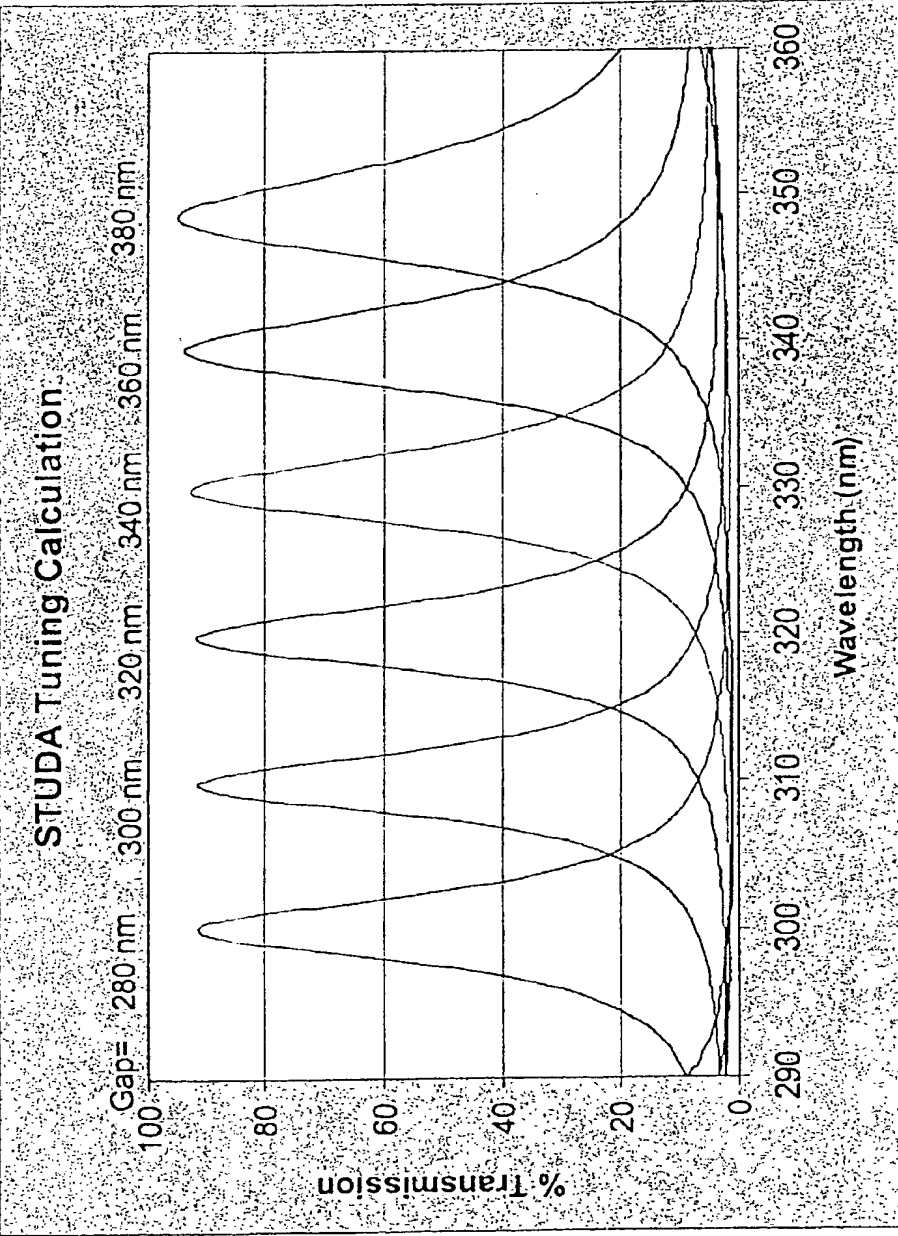


FIG. 9

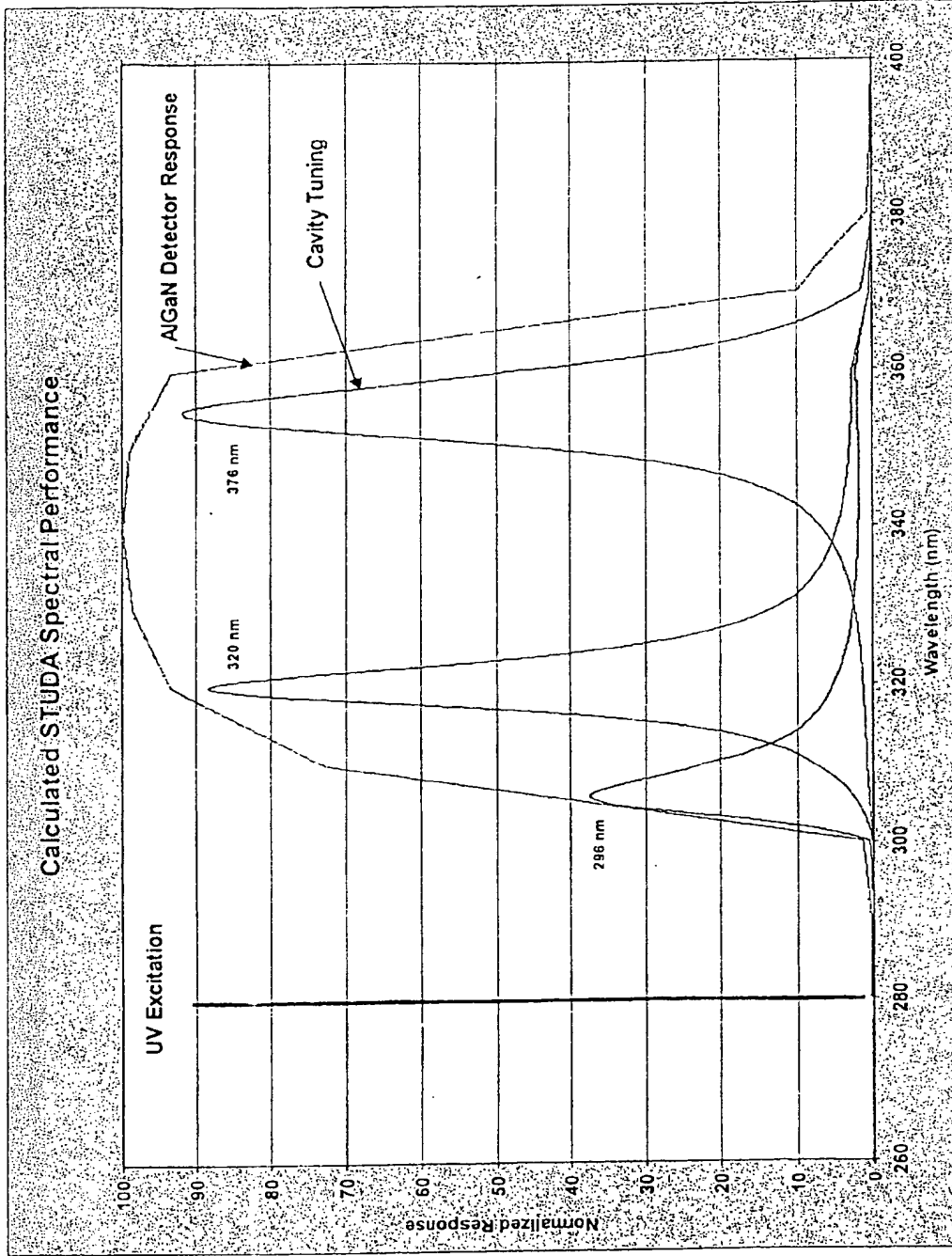


FIG. 10

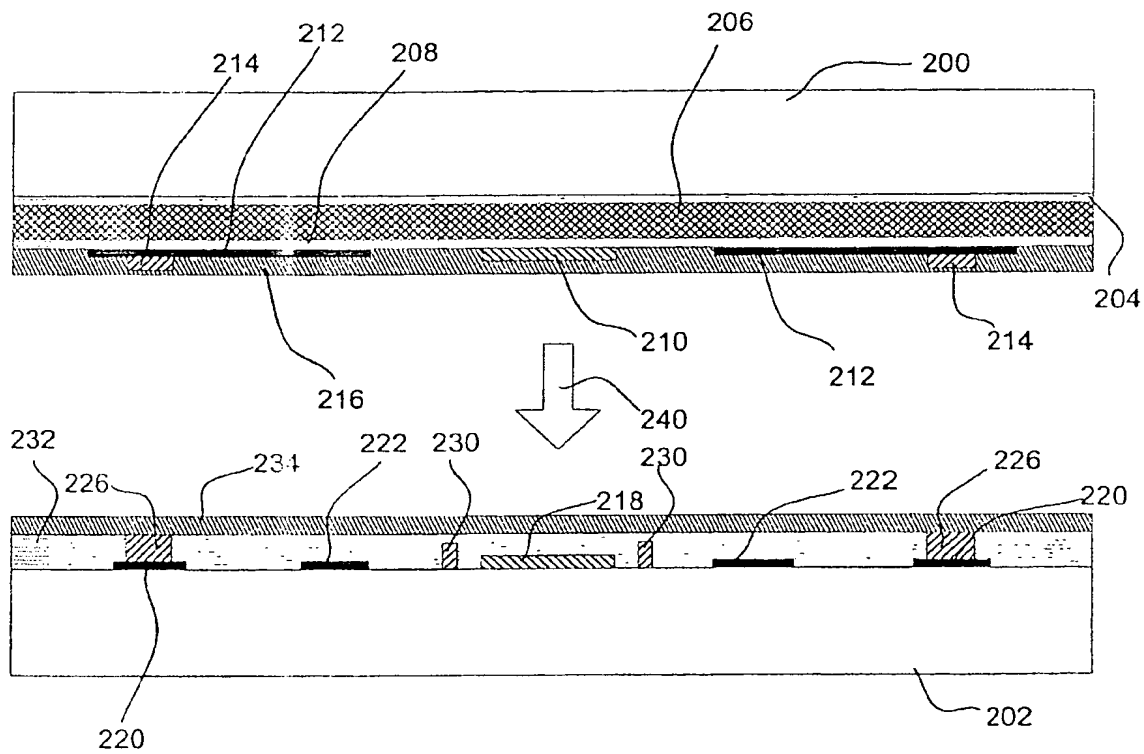
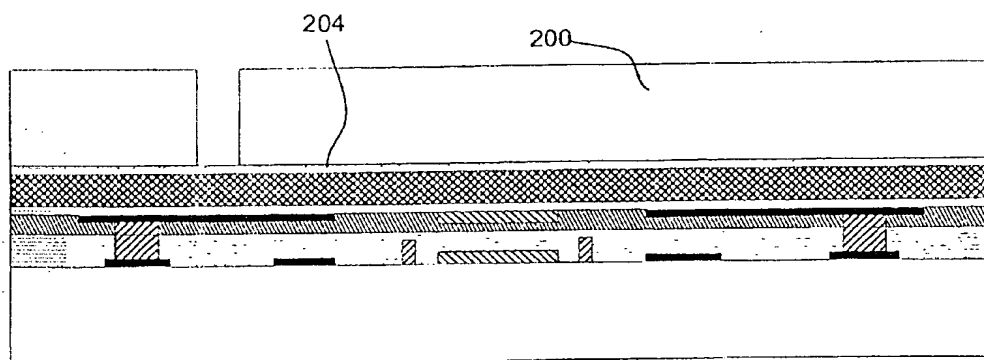
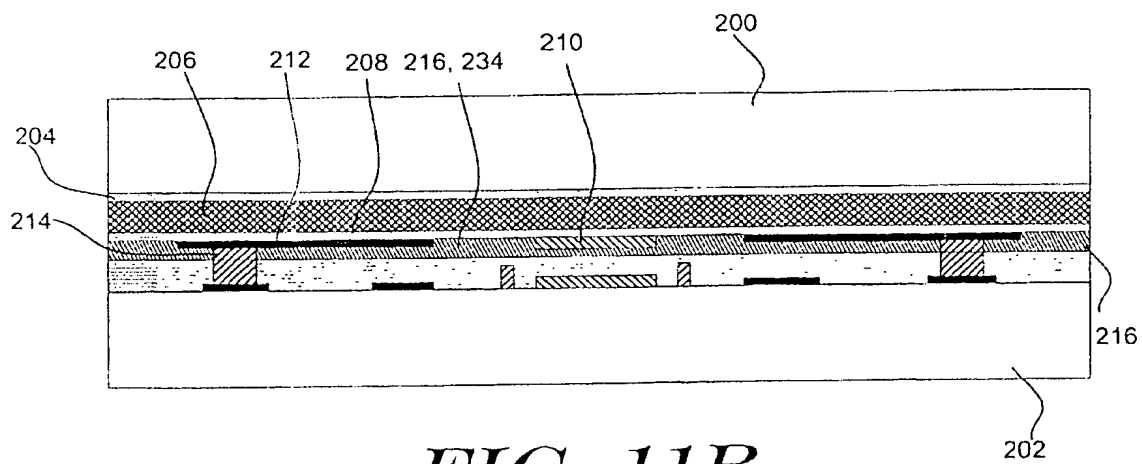
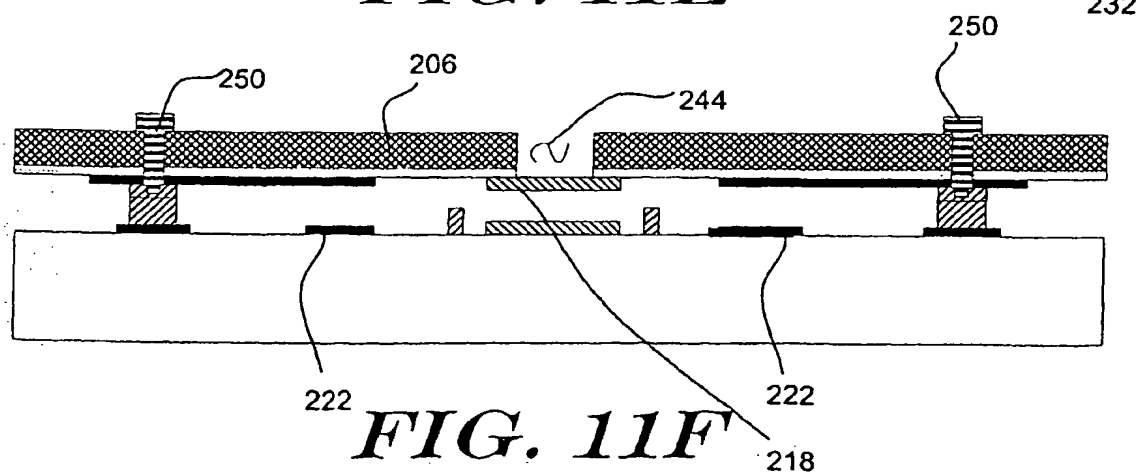
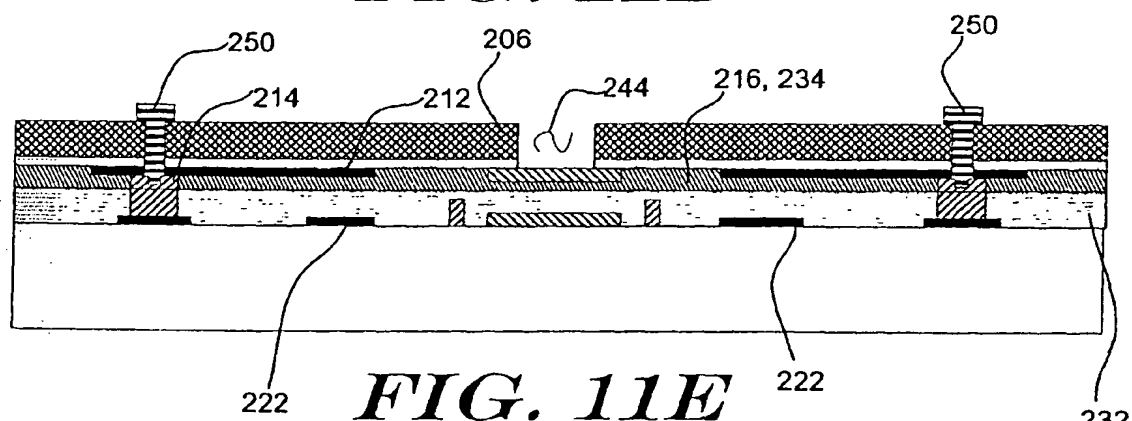
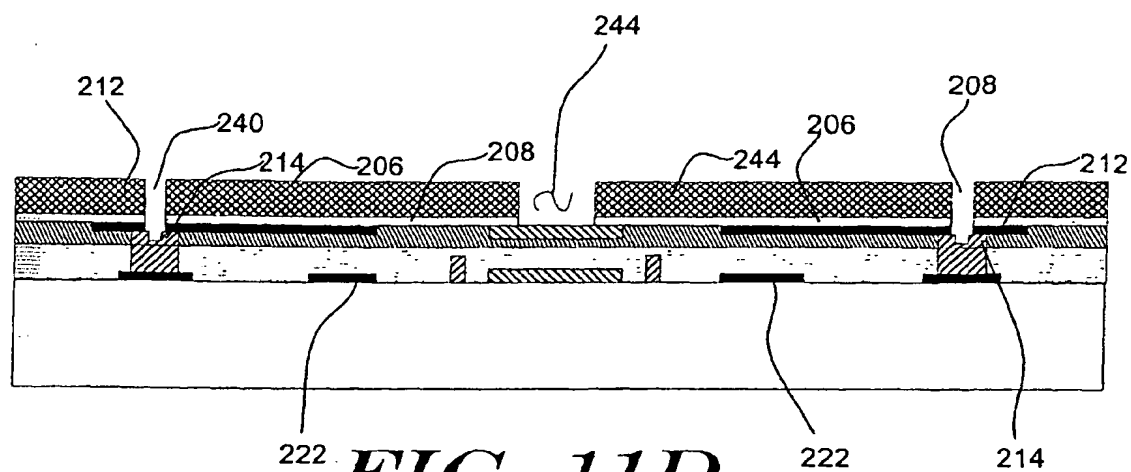


FIG. 11A





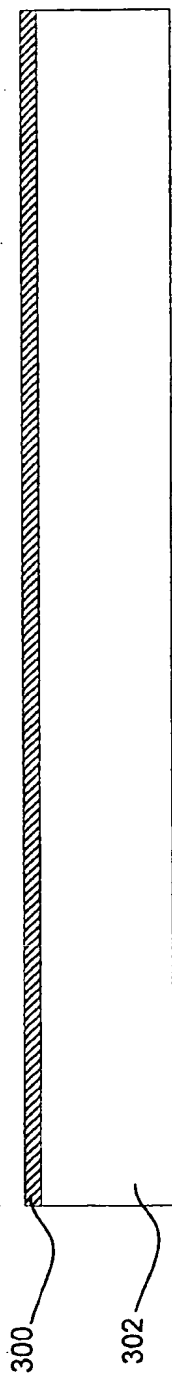


FIG. 12A

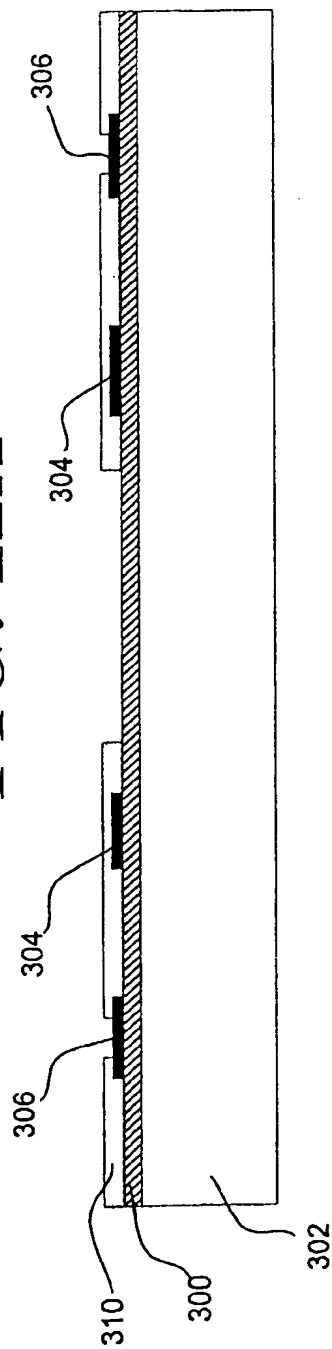


FIG. 12B

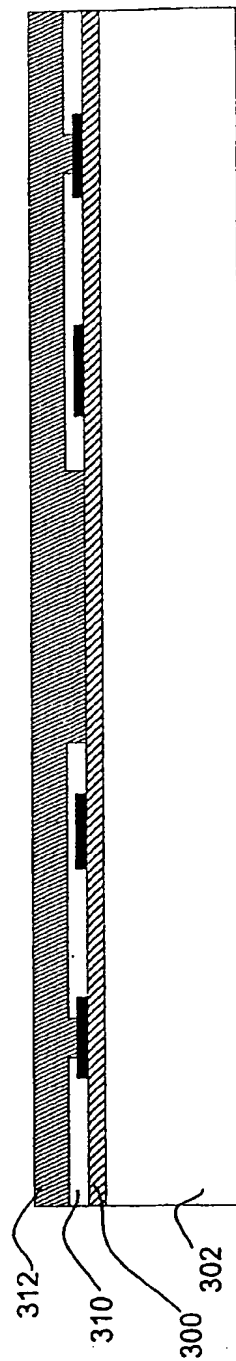


FIG. 12C

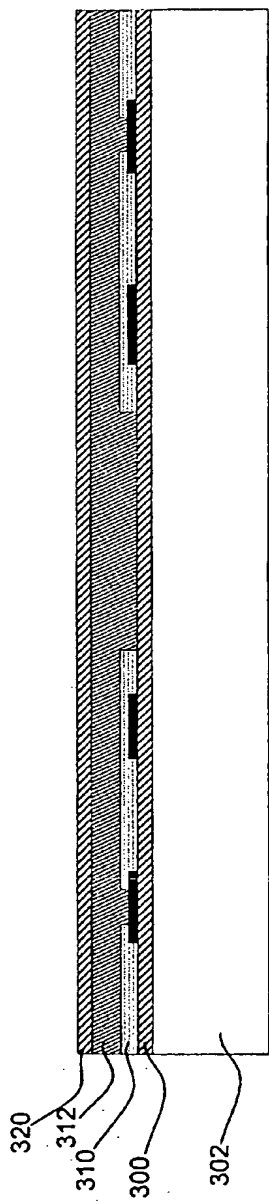


FIG. 12D

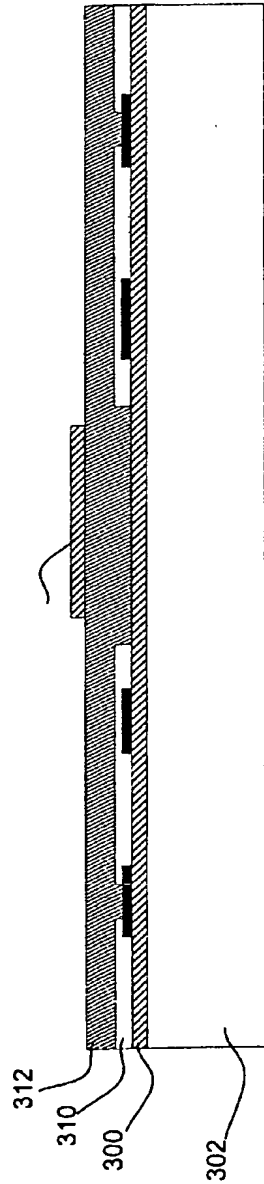


FIG. 12E

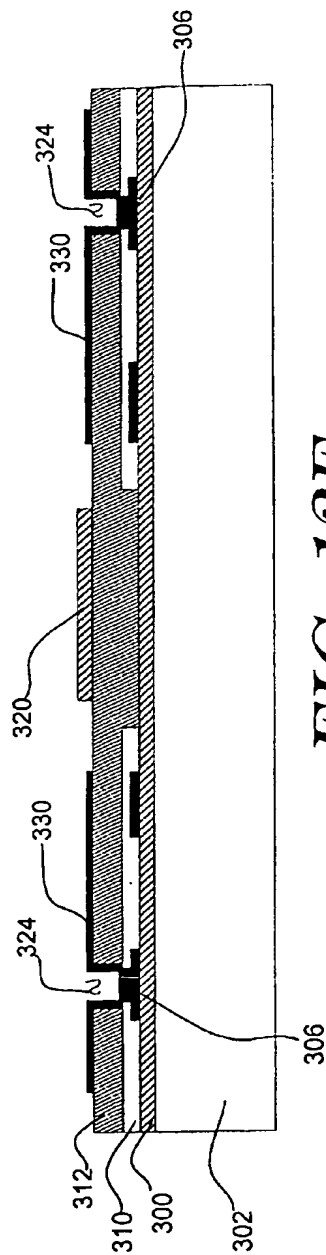


FIG. 12F

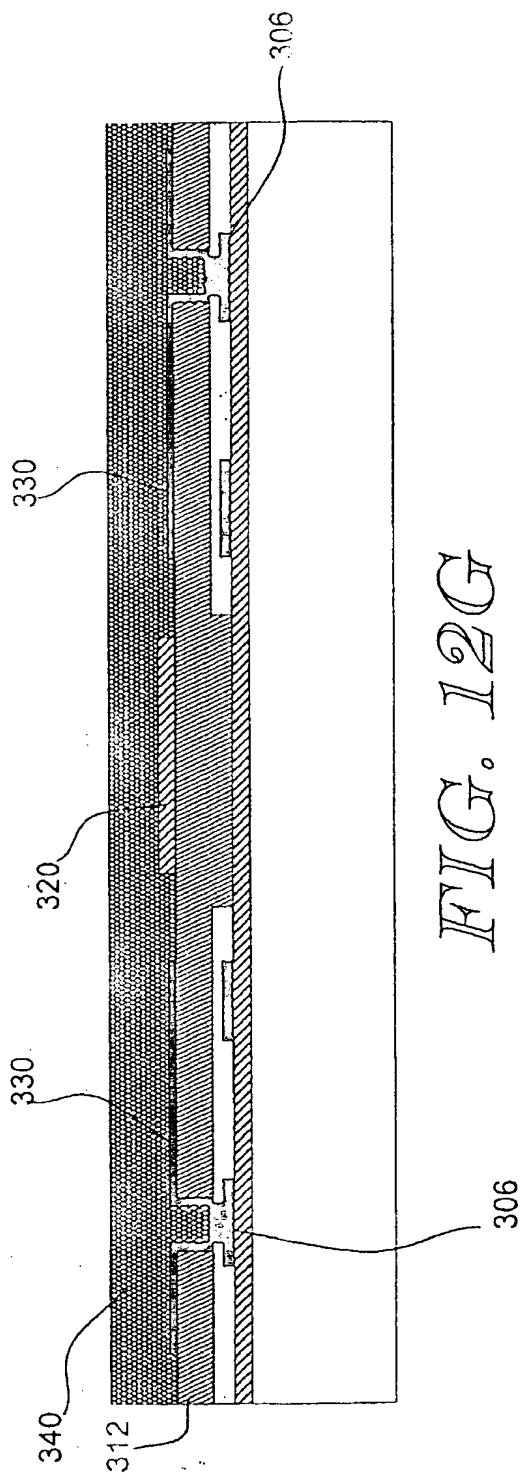


FIG. 12G

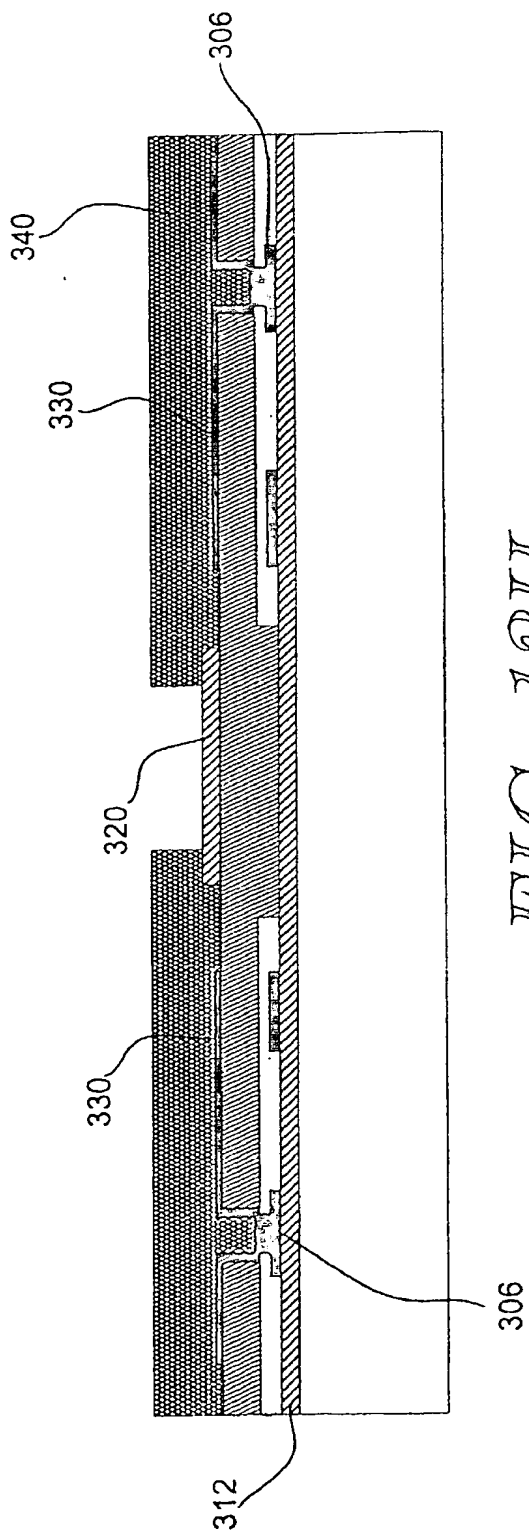


FIG. 12H

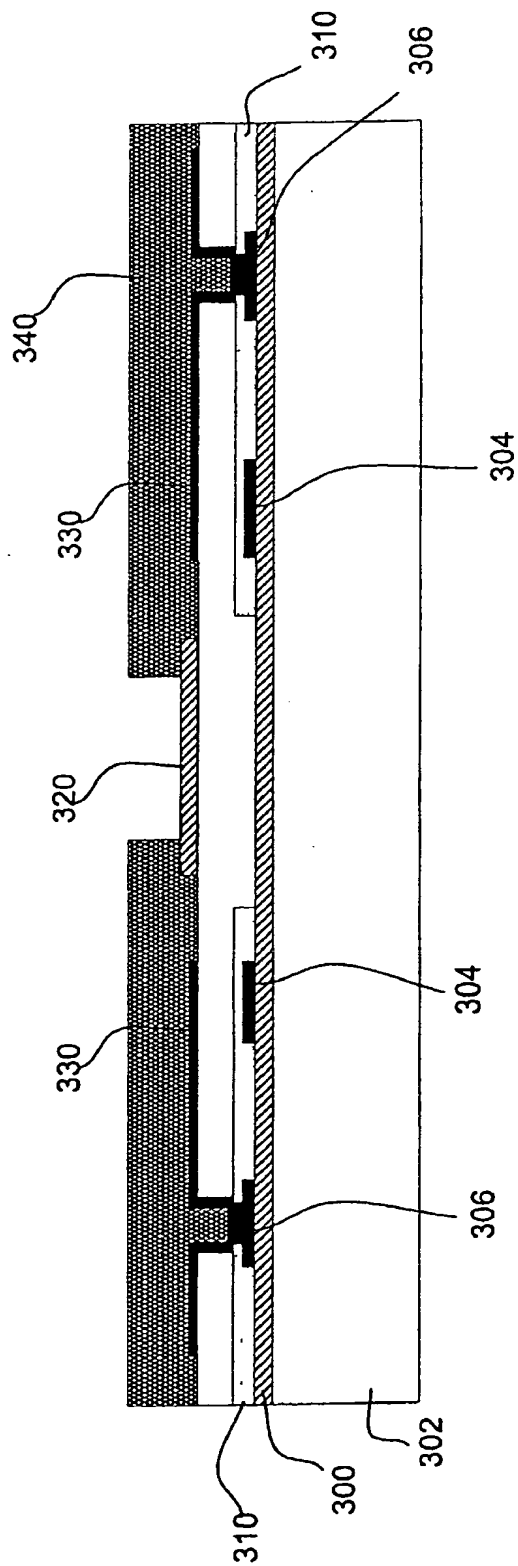


FIG. 12I

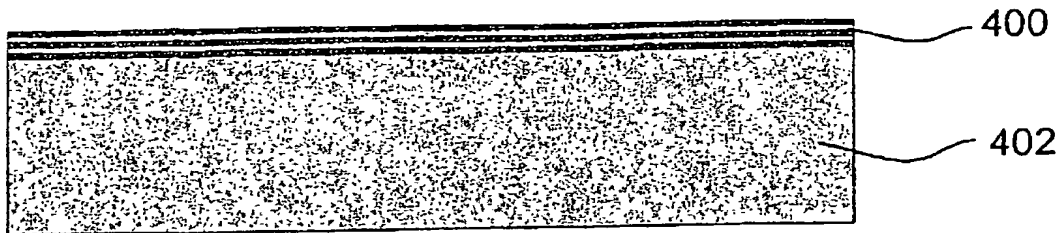


FIG. 13A

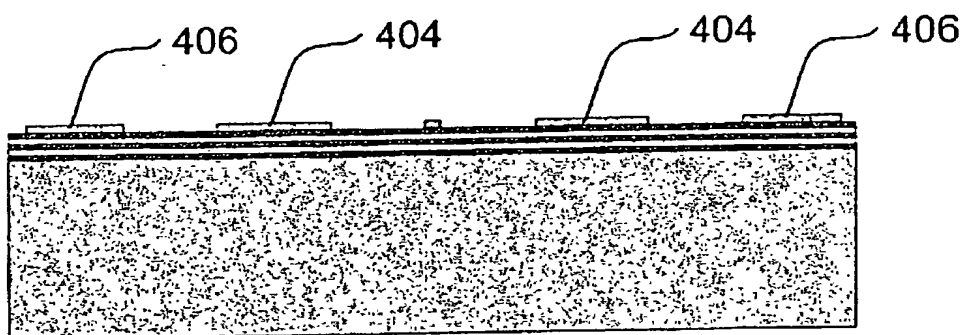


FIG. 13B

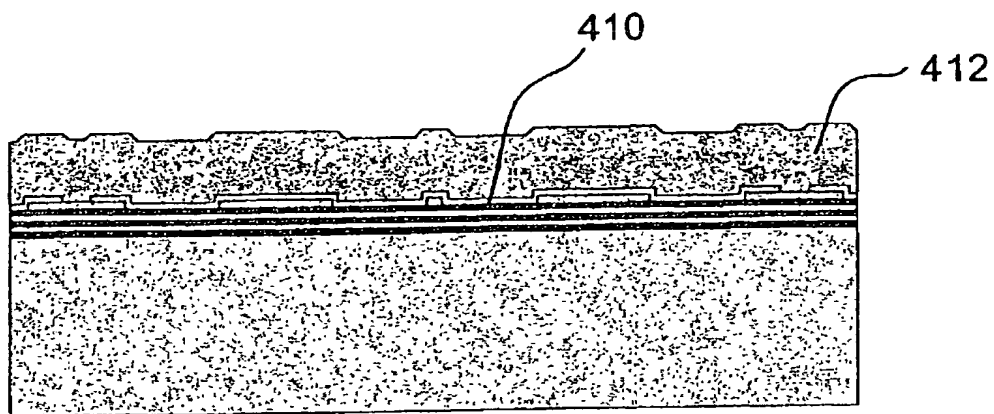


FIG. 13C

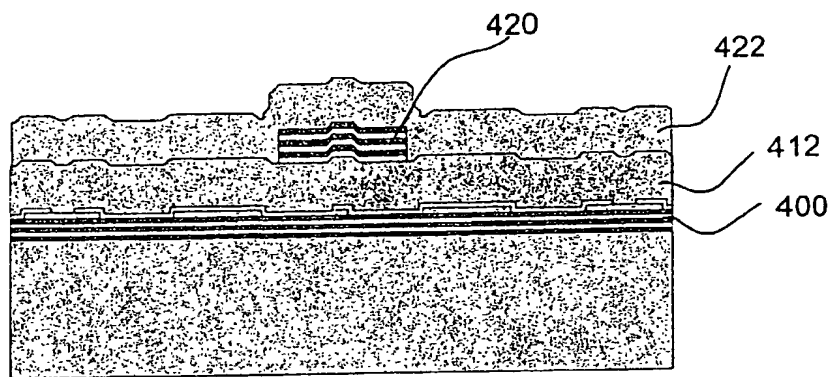


FIG. 13D

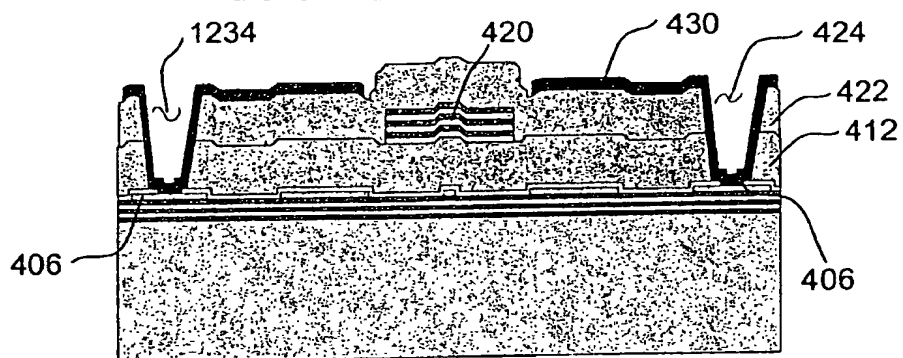


FIG. 13E

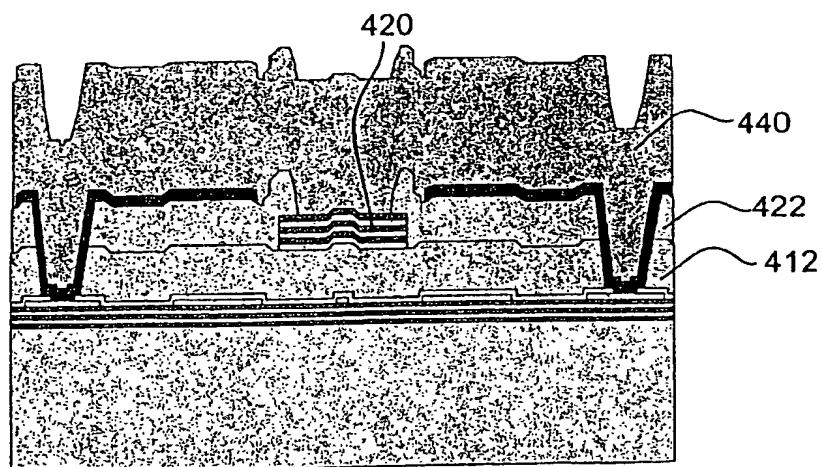


FIG. 13F

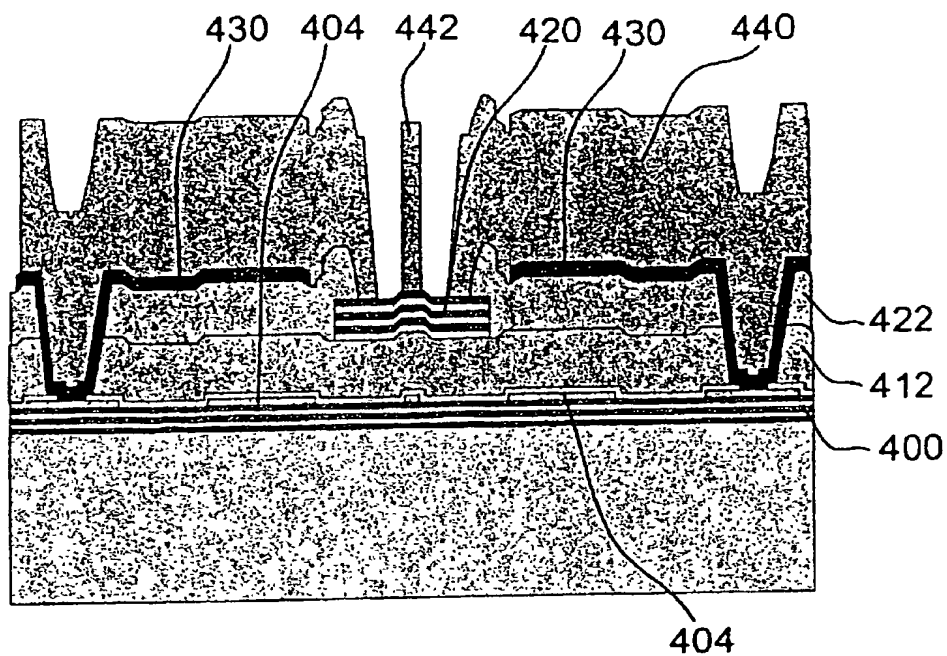


FIG. 13G

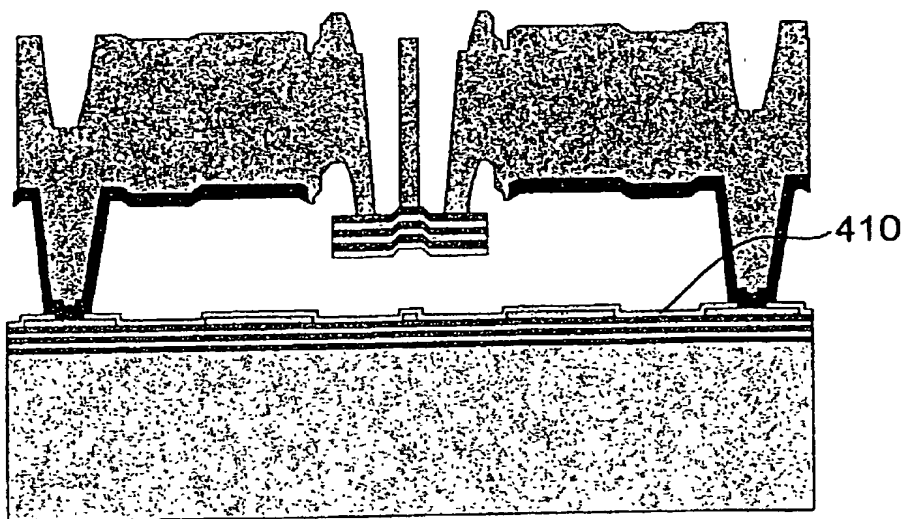


FIG. 13H

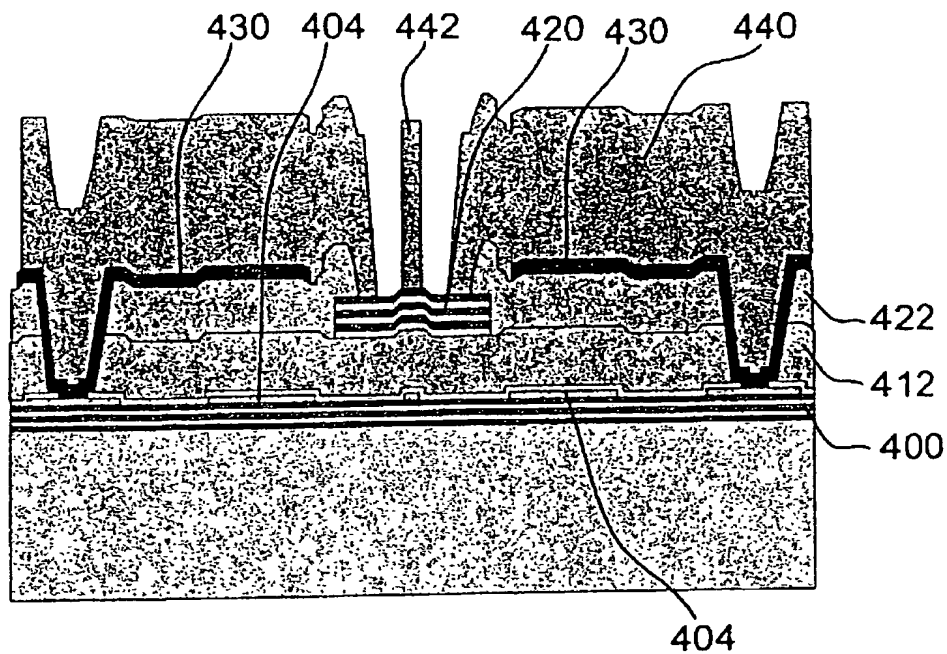


FIG. 13G

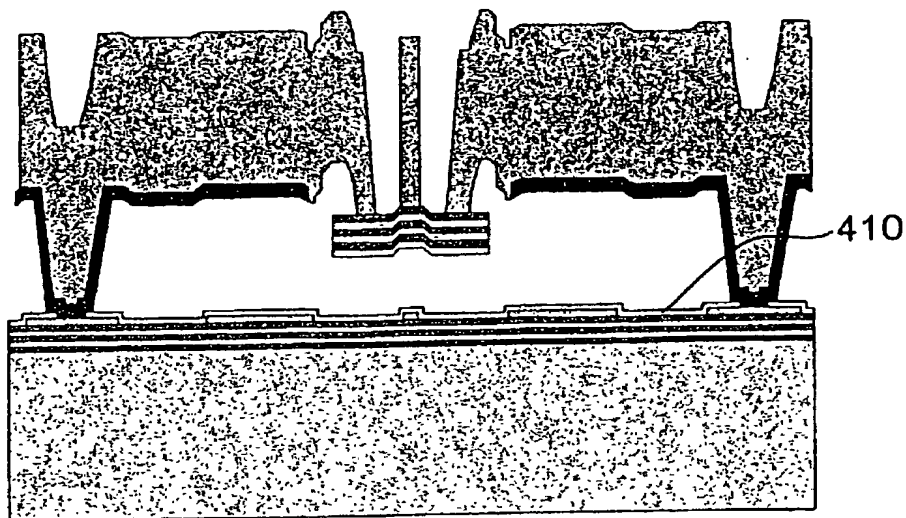


FIG. 13H

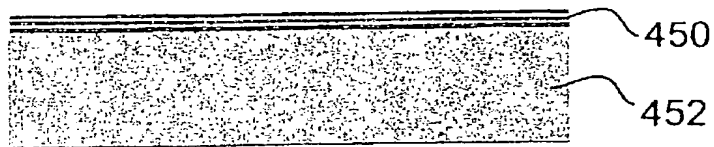


FIG. 14A

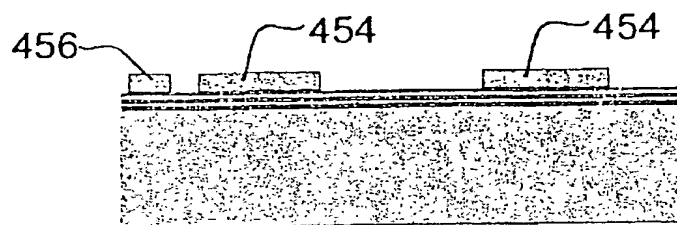


FIG. 14B

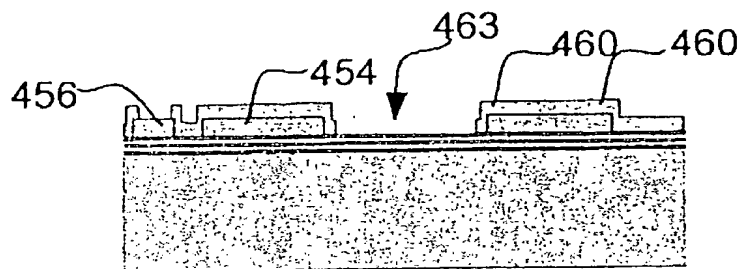


FIG. 14C

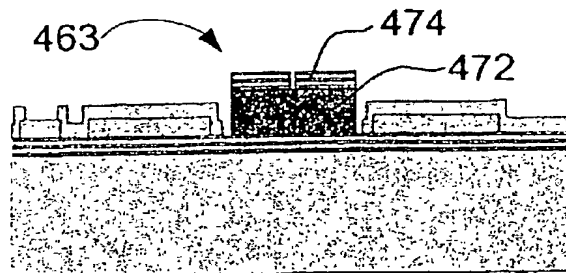


FIG. 14D

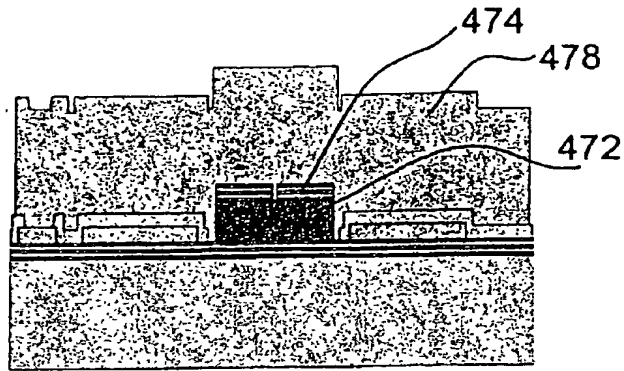


FIG. 14E

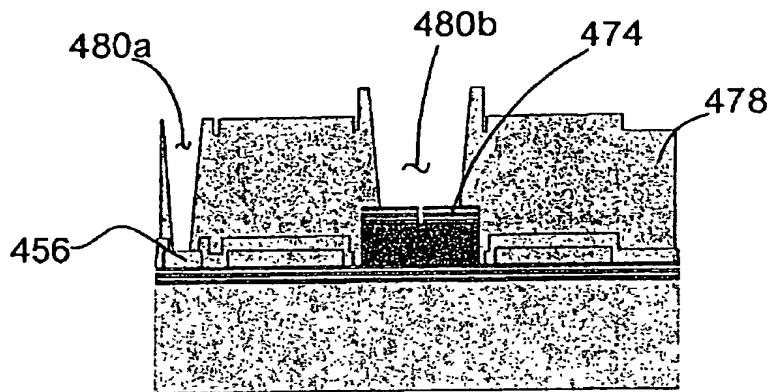


FIG. 14F

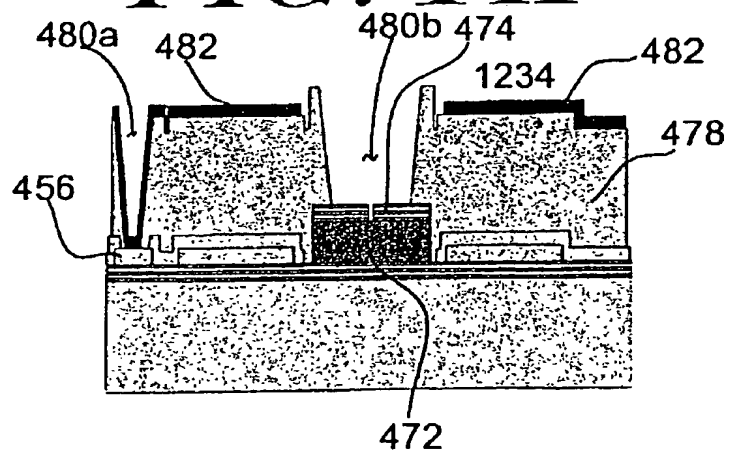


FIG. 14G

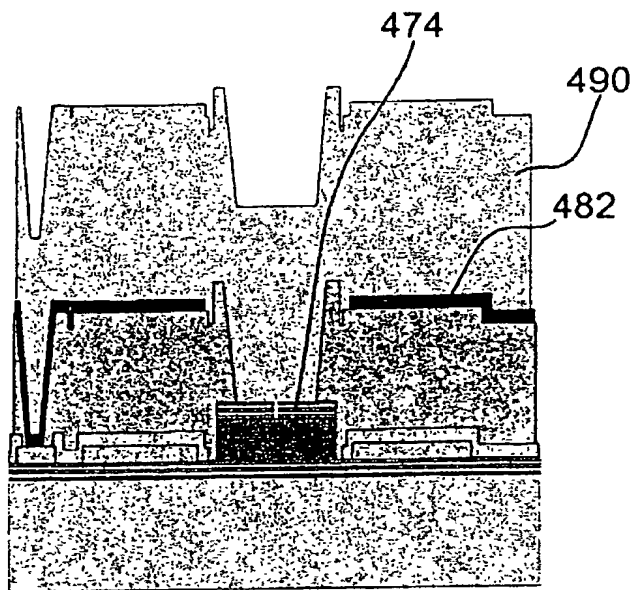


FIG. 14H

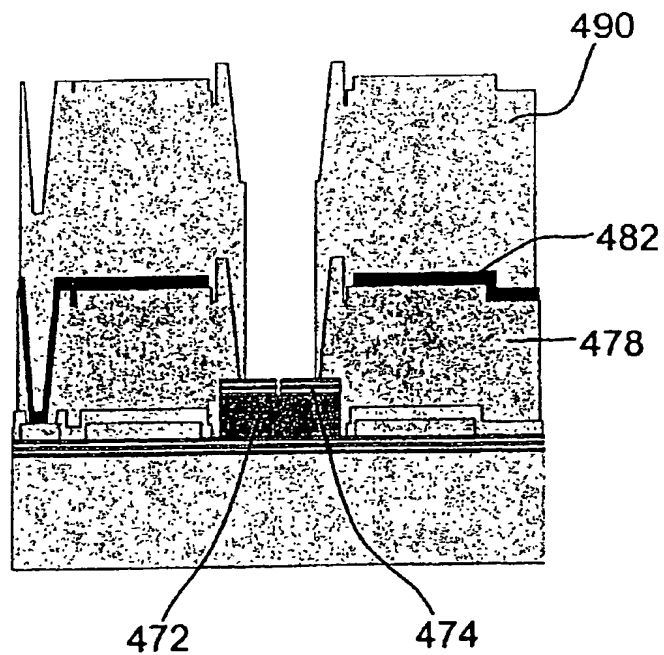


FIG. 14I

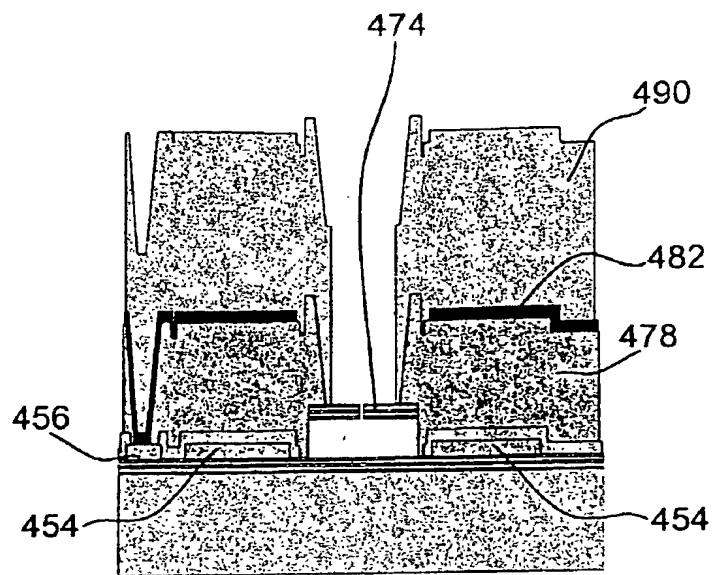


FIG. 14J

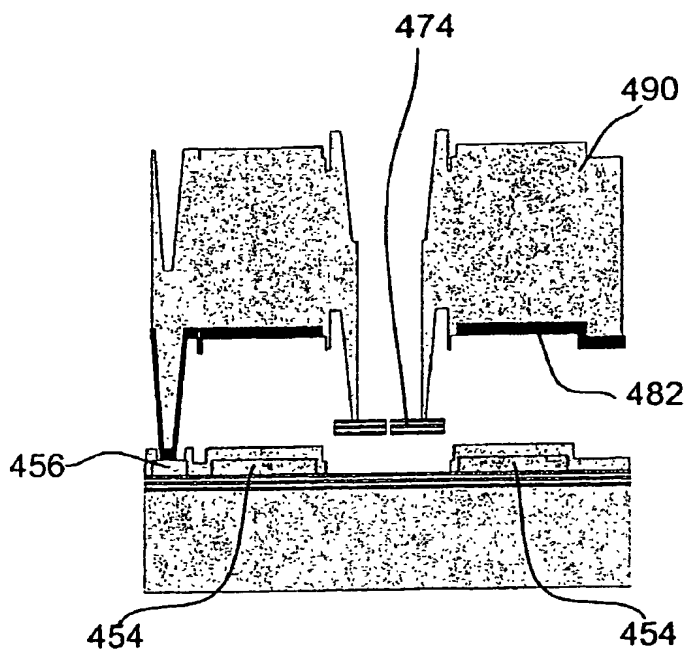


FIG. 14K

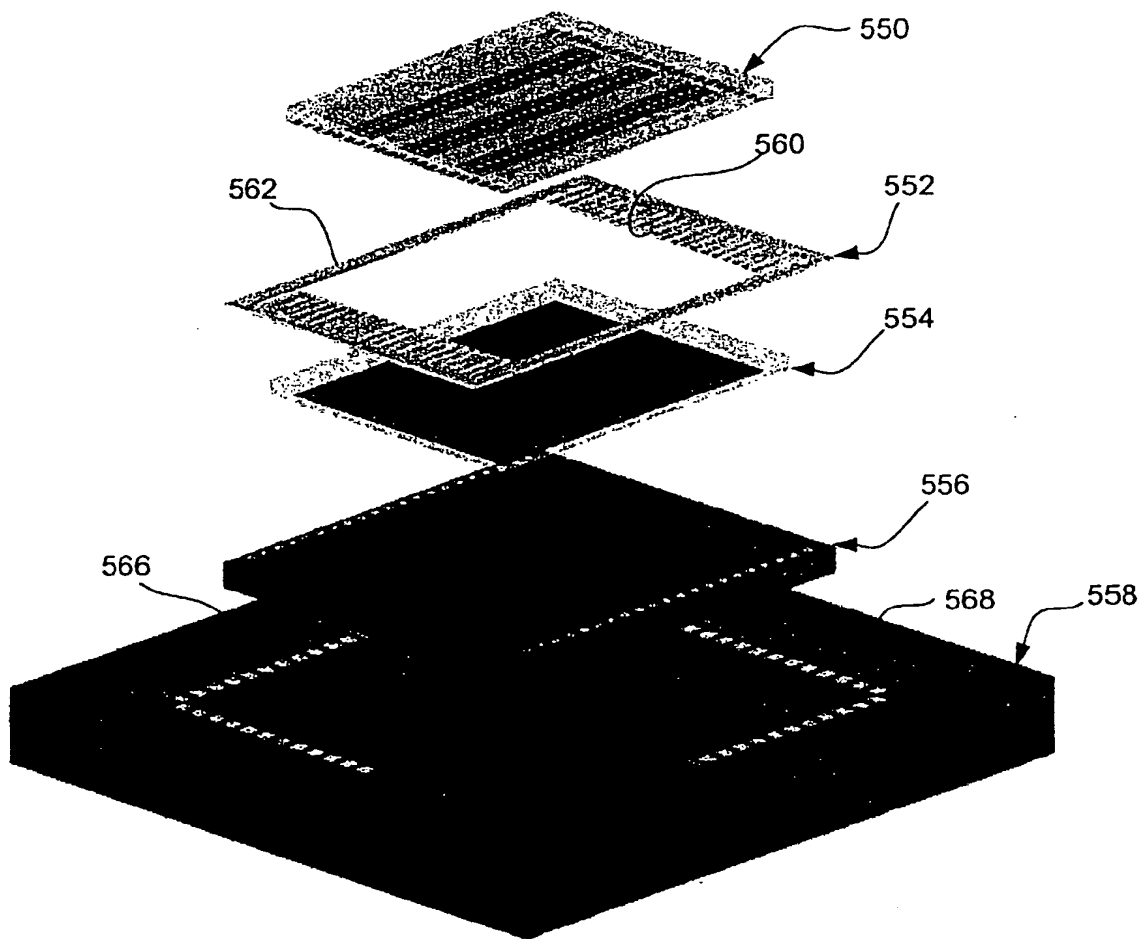


FIG. 15A

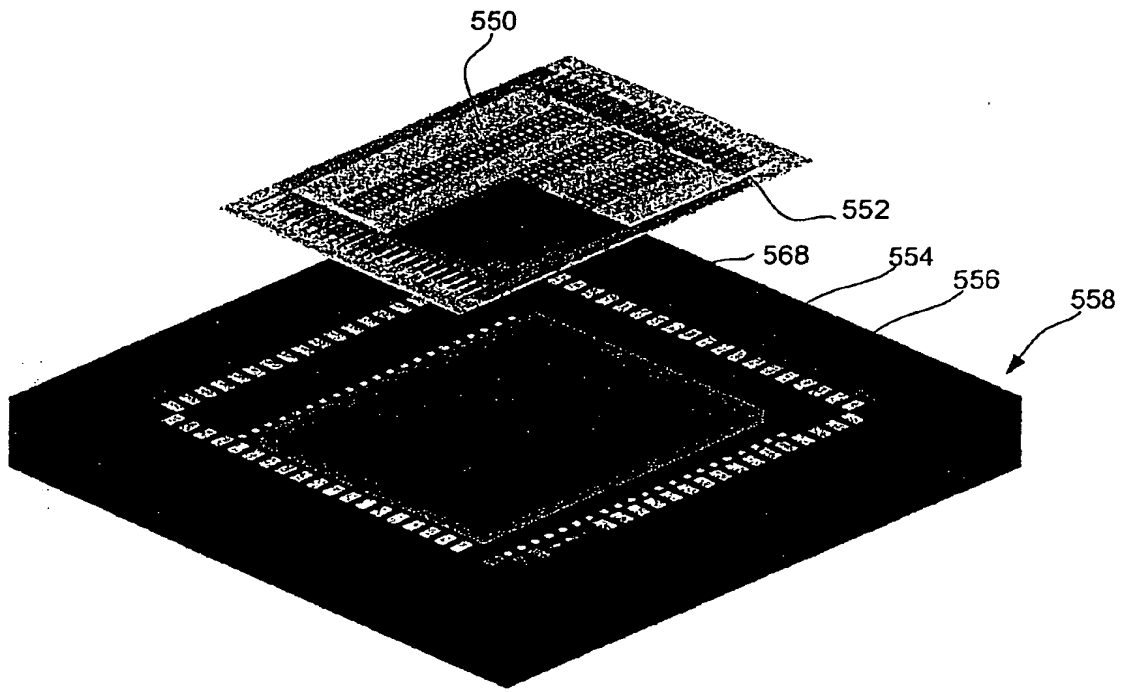


FIG. 15B

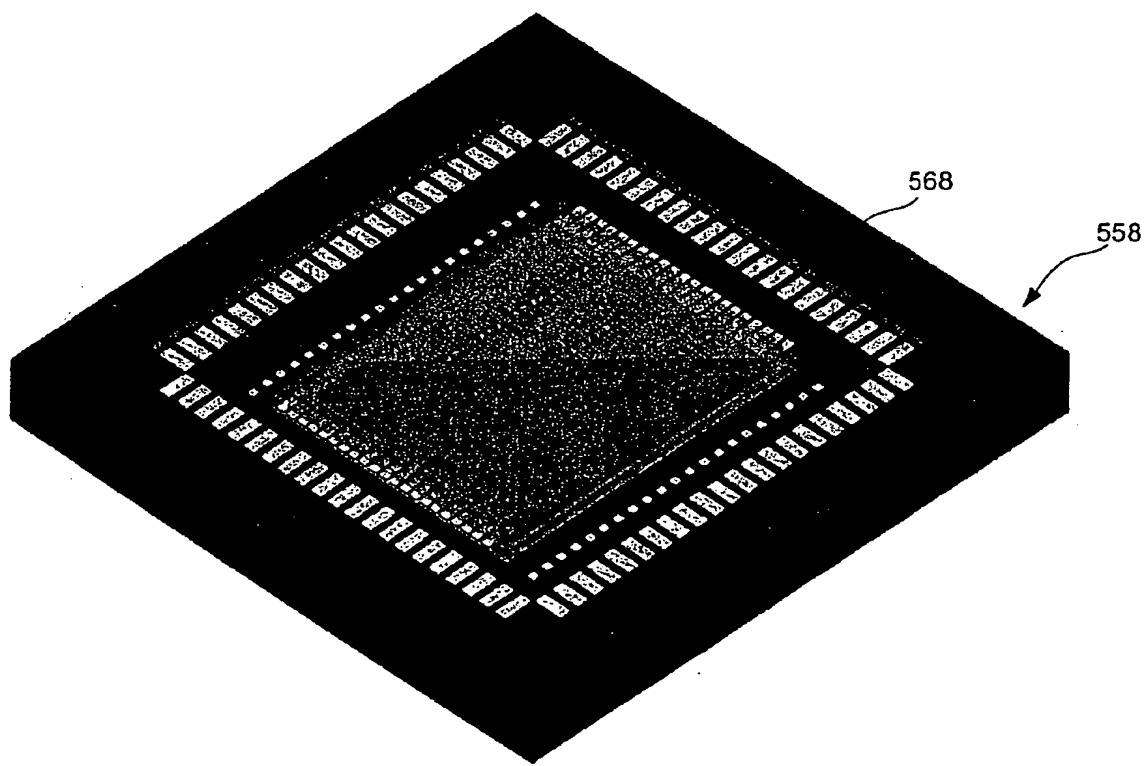


FIG. 15C

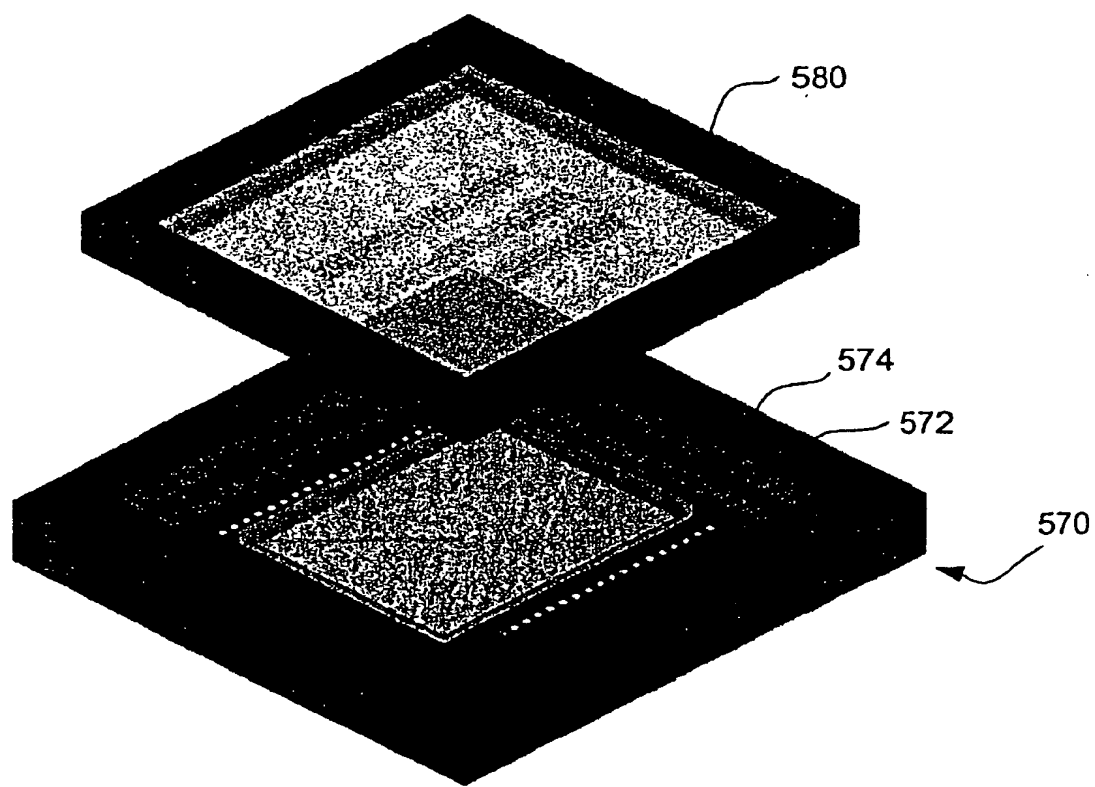


FIG. 16

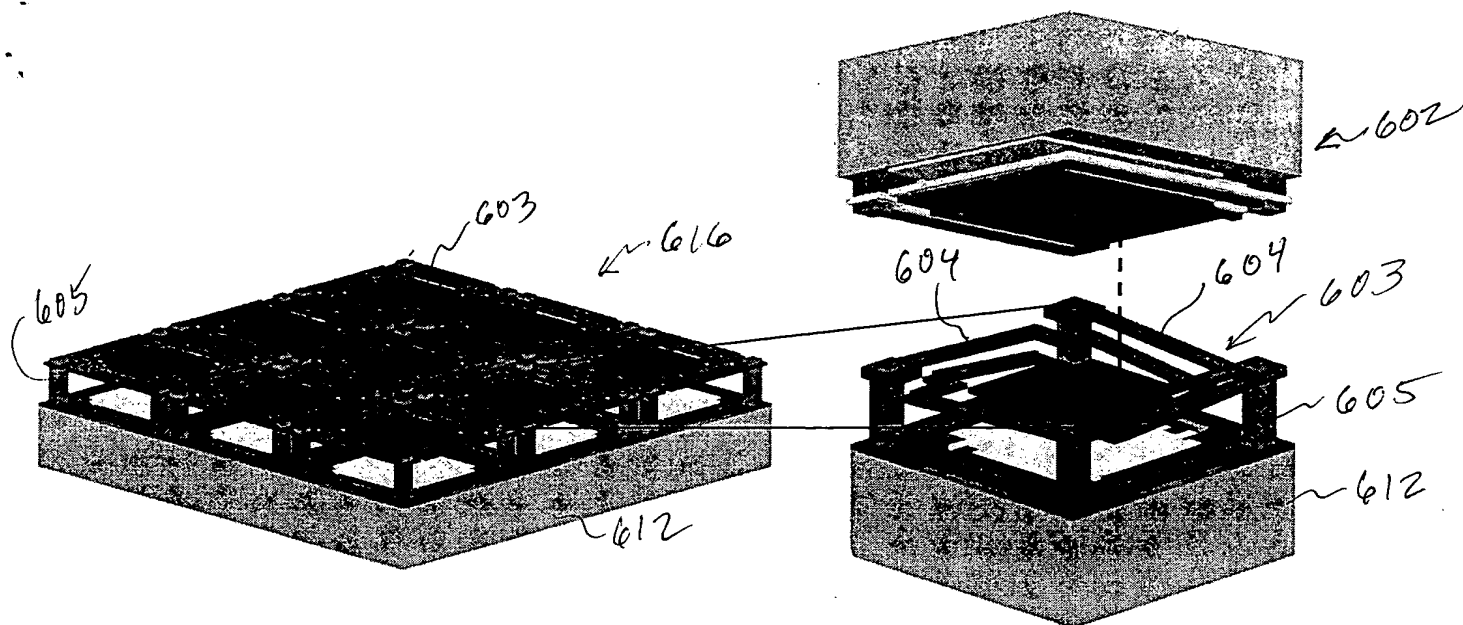


FIGURE 17

Die Perspective

- ✓ Peripheral signal routing MUX
- ✓ Peripheral NiFe posts

Pixel Perspective (2X Vertical Scaling)

- ✓ Si AR Coating
- ✓ Etalon CMOS with IR openings
- ✓ Etalon Mirror (Y_2O_3 / Ge)
- ✓ Vias to Etalon Mirror
- ✓ Etalon Legs
- ✓ Etalon membrane mirror (Si or Ge Quarter wave)
- ✓ Etalon - Bolometer Gap (10 μm as shown)
- ✓ Bolometer pixel with 2.5 μm gap
- ✓ Bolometer reflector
- ✓ Bolometer CMOS on Si

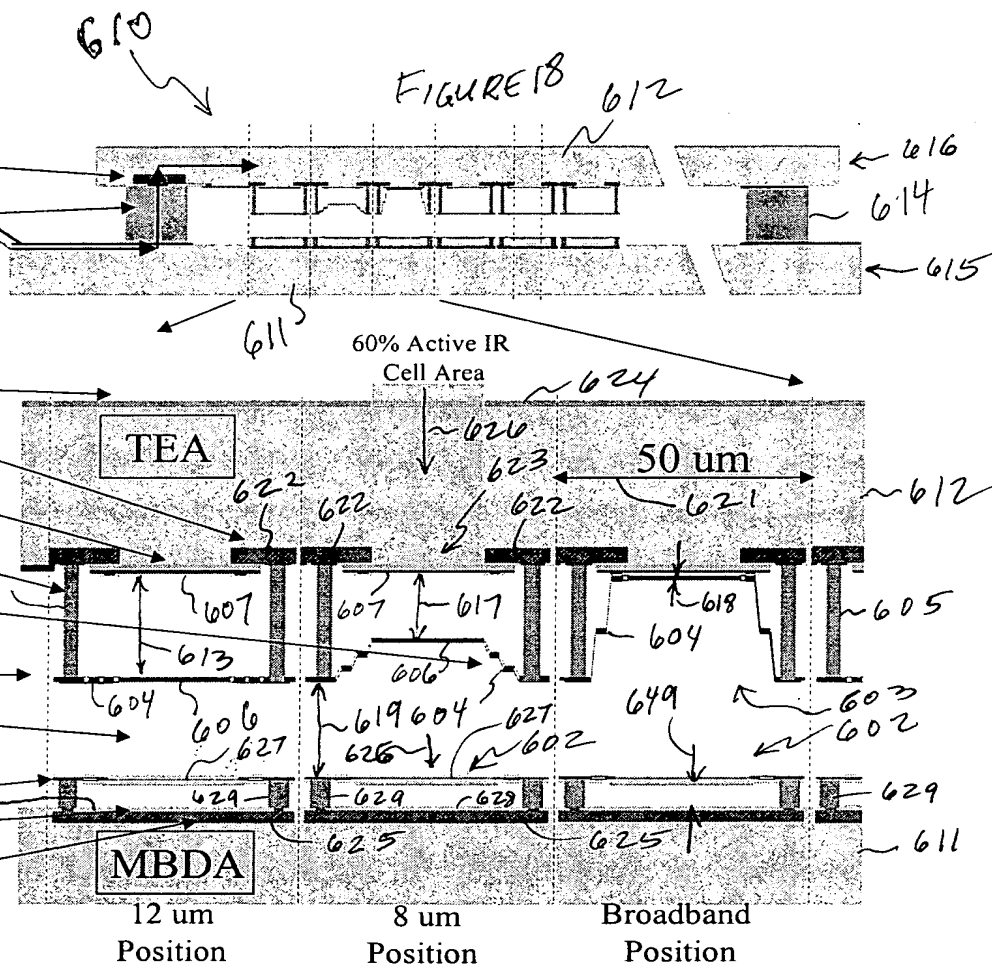


FIGURE 19

LAMBDA Spectral Signal Levels (Range of F/# Lenses)

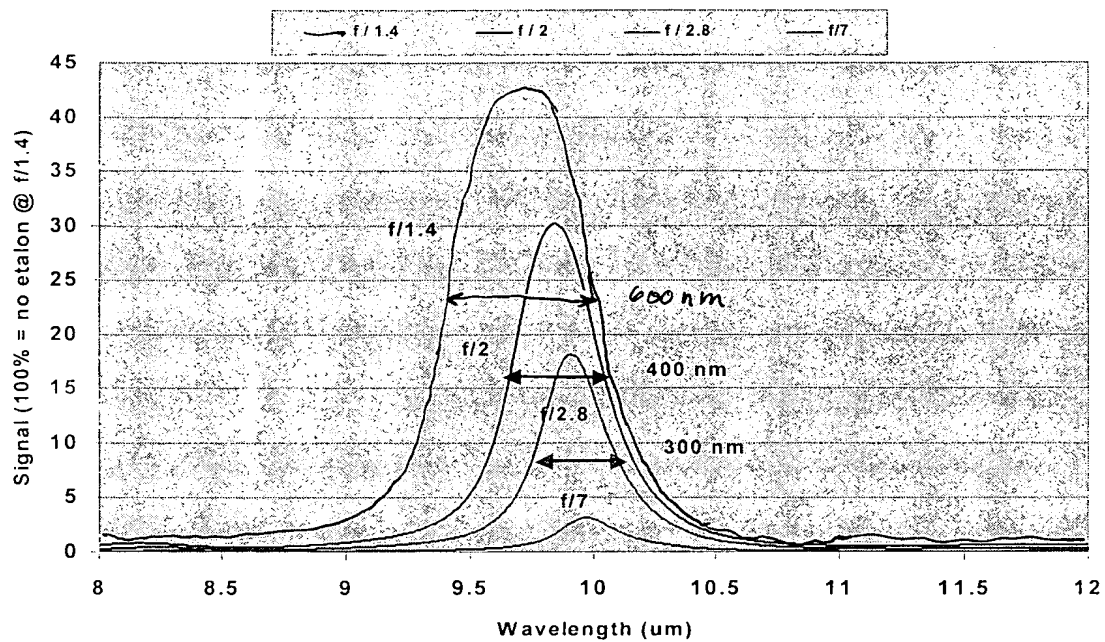


FIGURE 20

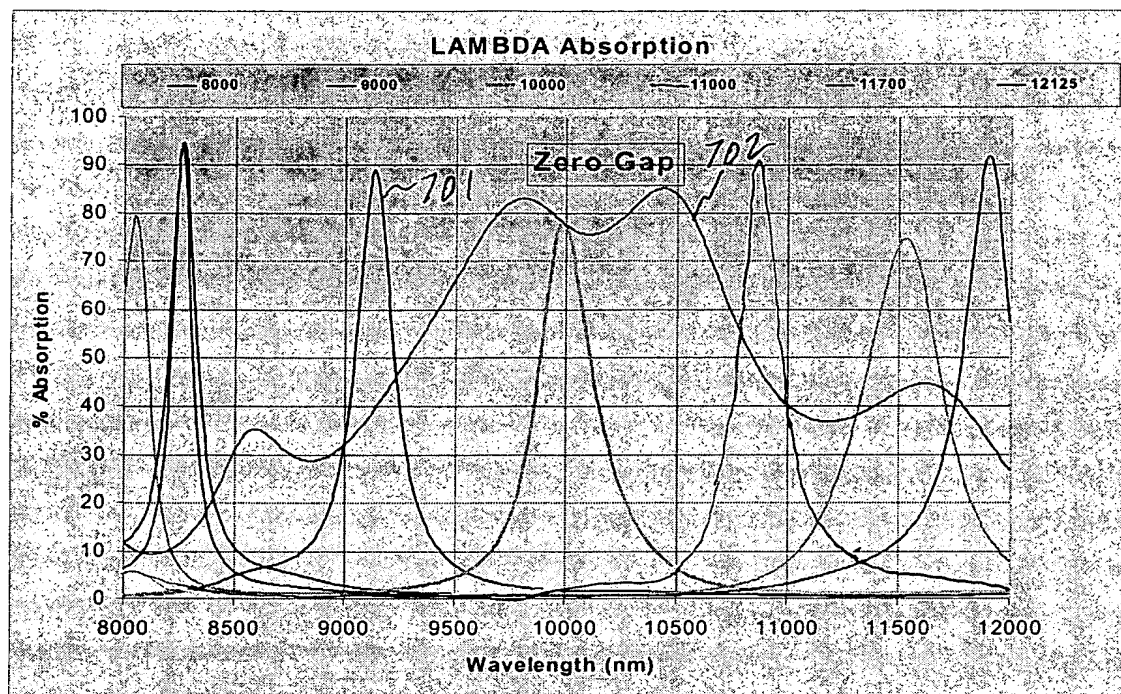


FIGURE 21

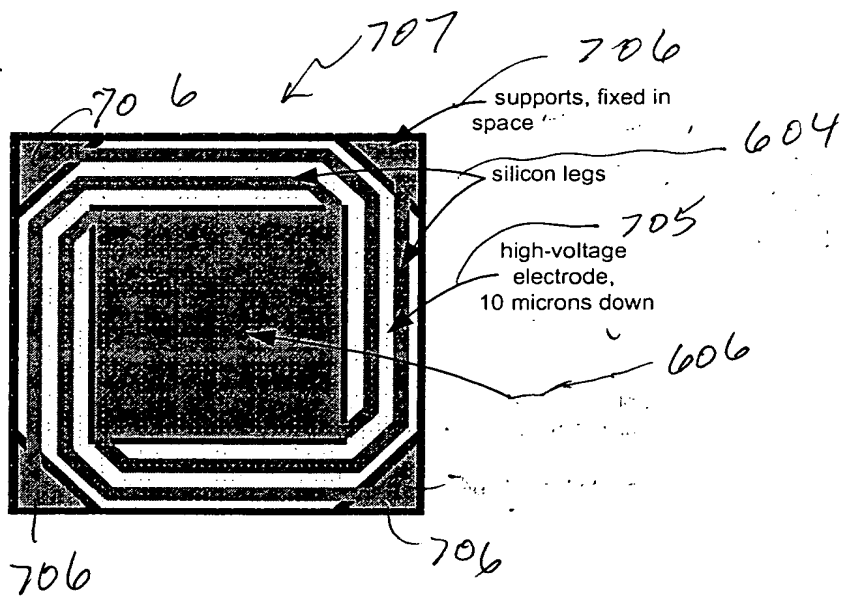
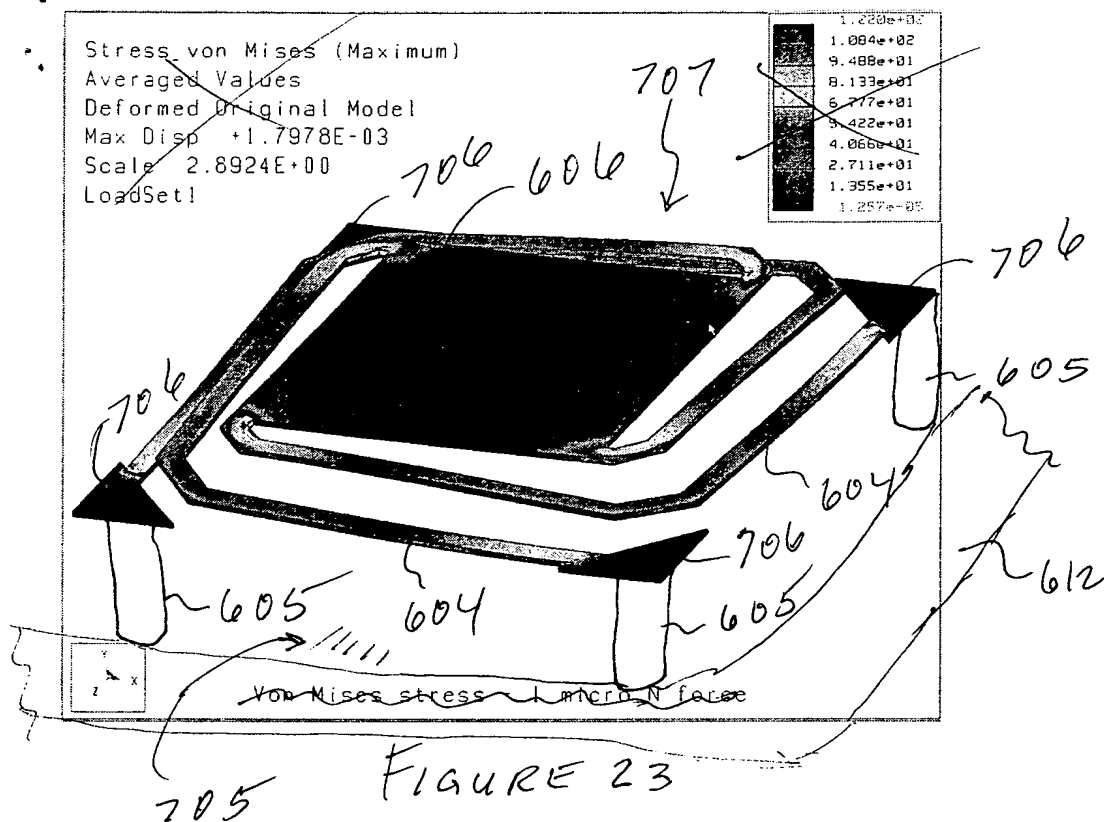


FIGURE 22



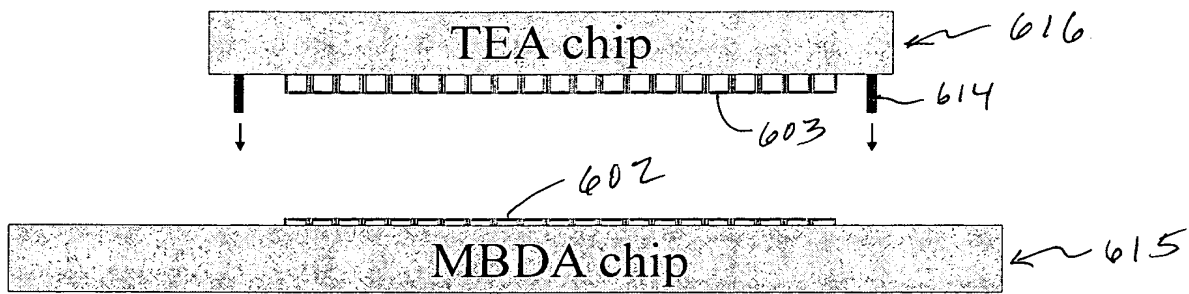


FIGURE 24A

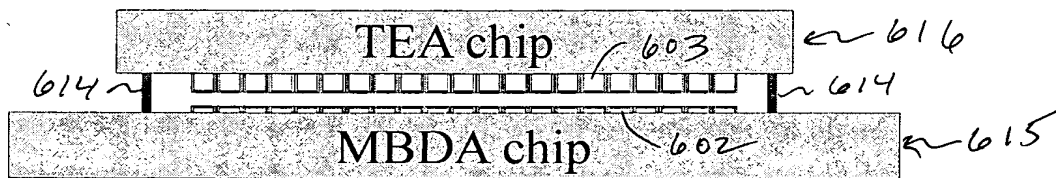


FIGURE 24B

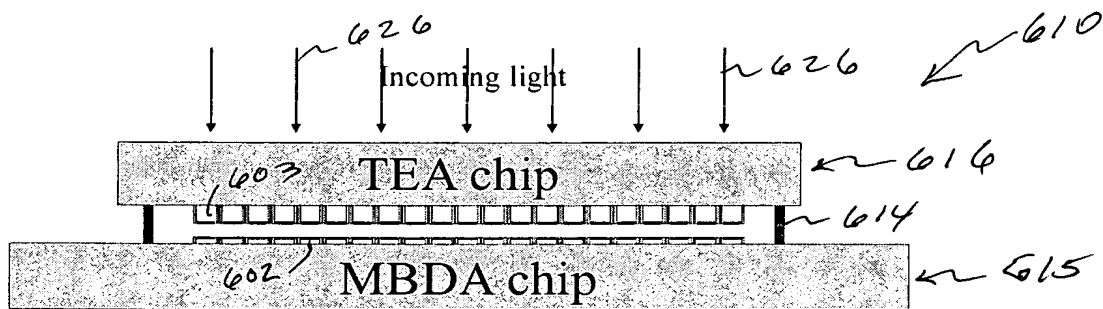


FIGURE 24C

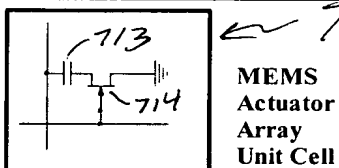
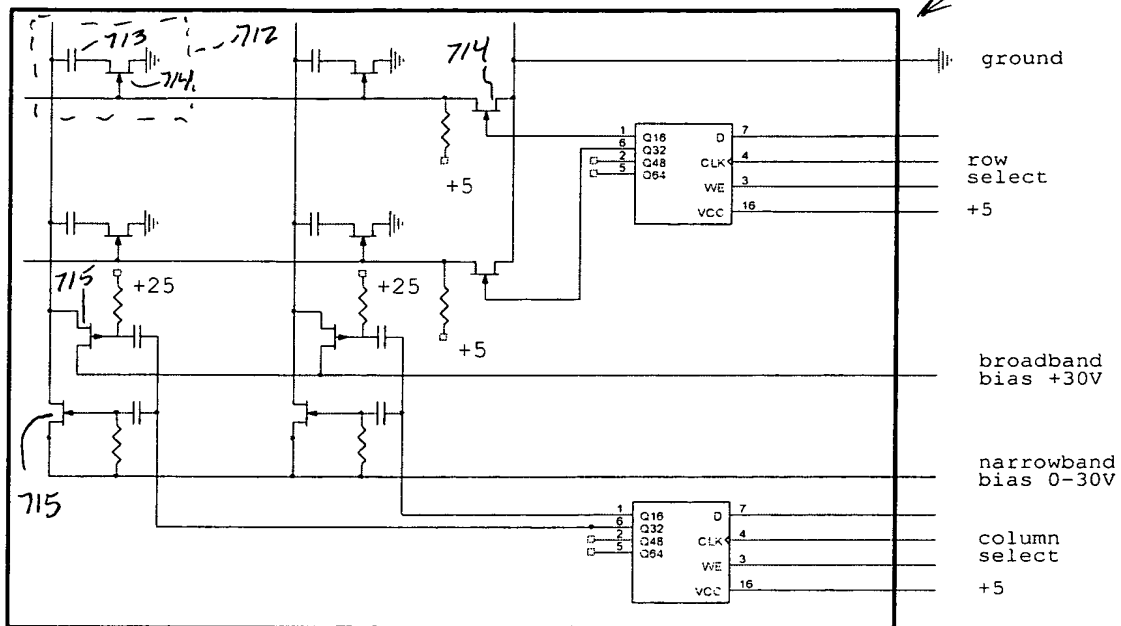


FIGURE 25B

FIGURE 25A MEMS Actuator Array

Title	MEMS actuator array
Size	Document Number
	UAFPA drive.opj
Date	Thursday, June 20, 2002
Sheet	1 of 1
Rev	

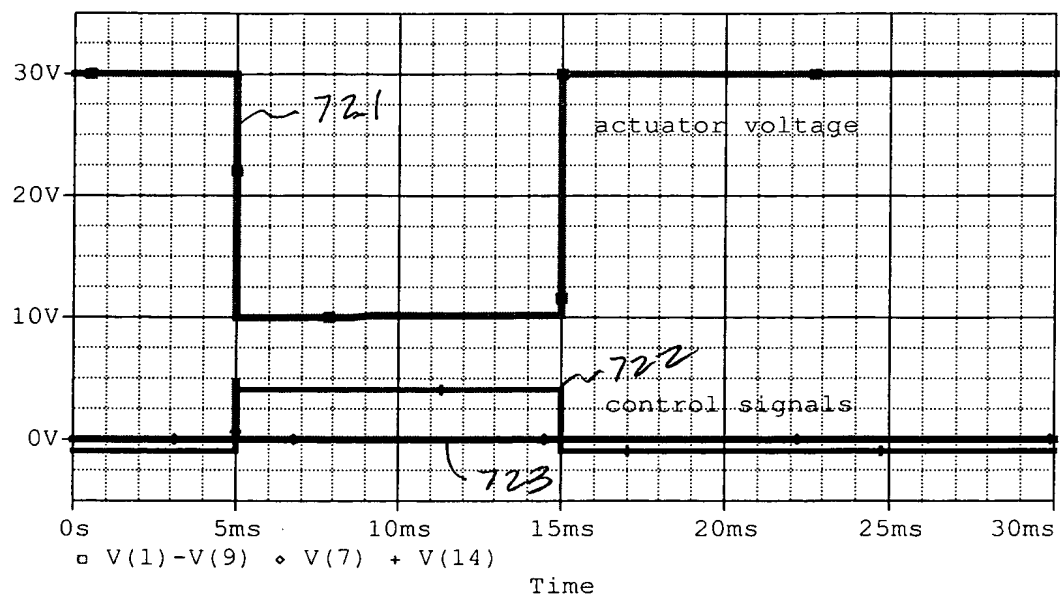


FIGURE 26

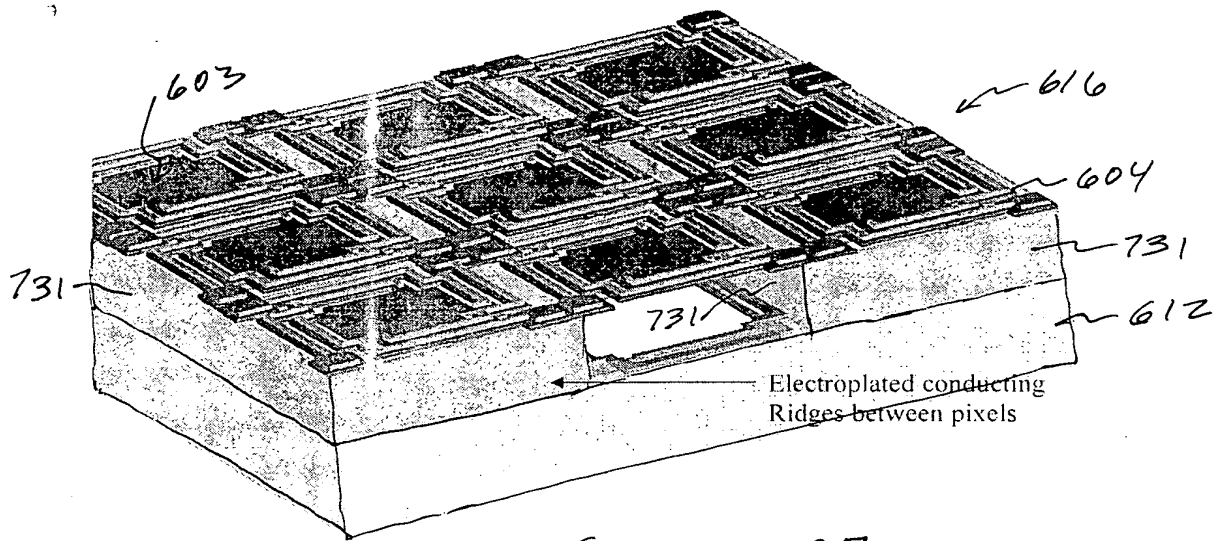


FIGURE 27

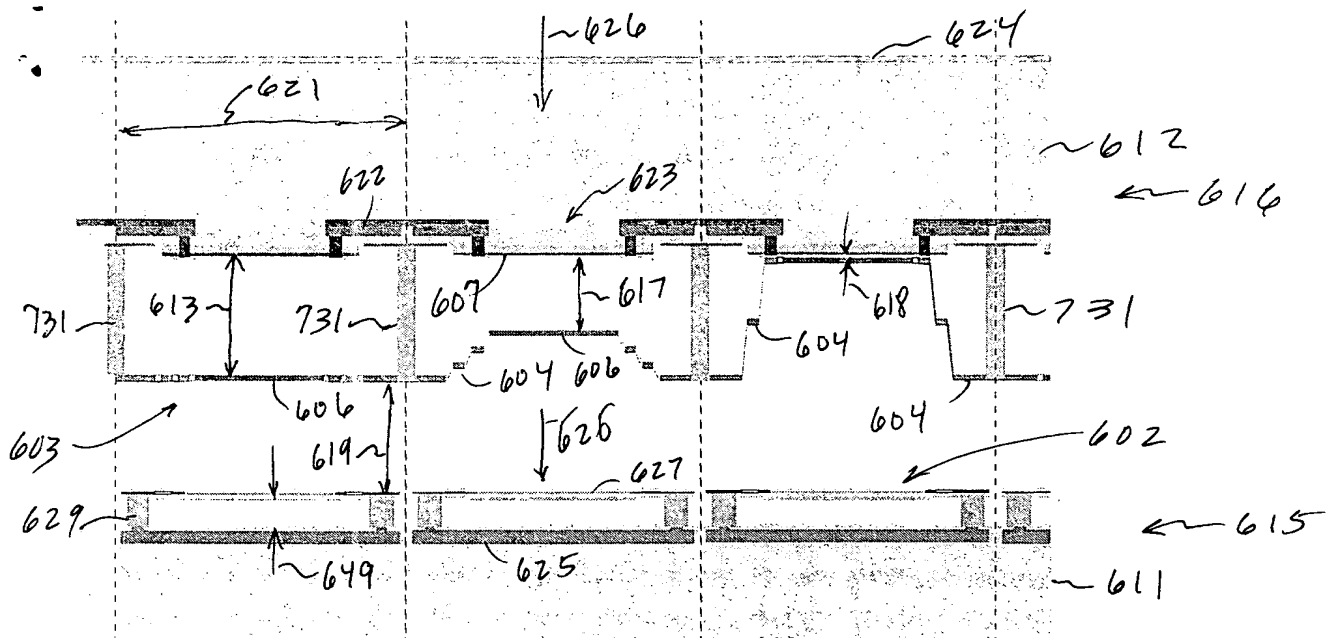


FIGURE 28

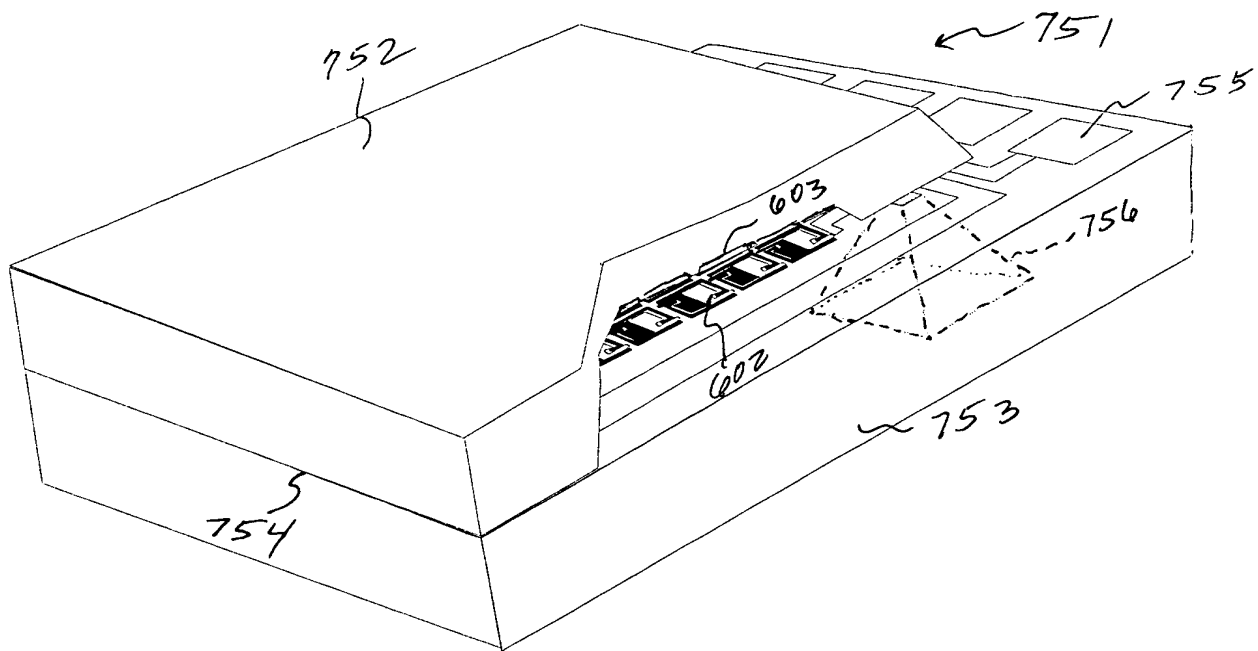


FIGURE 29